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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 1 Web Page for STN Seminar Schedule - N. America  
NEWS 2 AUG 10 Time limit for inactive STN sessions doubles to 40  
minutes  
NEWS 3 AUG 18 COMPENDEX indexing changed for the Corporate Source  
(CS) field  
NEWS 4 AUG 24 ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced  
NEWS 5 AUG 24 CA/Caplus enhanced with legal status information for  
U.S. patents  
NEWS 6 SEP 09 50 Millionth Unique Chemical Substance Recorded in  
CAS REGISTRY  
NEWS 7 SEP 11 WPIDS, WPINDEX, and WPIX now include Japanese FTERM  
thesaurus  
NEWS 8 OCT 21 Derwent World Patents Index Coverage of Indian and  
Taiwanese Content Expanded  
NEWS 9 OCT 21 Derwent World Patents Index enhanced with human  
translated claims for Chinese Applications and  
Utility Models  
NEWS 10 NOV 23 Addition of SCAN format to selected STN databases  
NEWS 11 NOV 23 Annual Reload of IFI Databases  
NEWS 12 DEC 01 FRFULL Content and Search Enhancements  
NEWS 13 DEC 01 DGENE, USGENE, and PCTGEN: new percent identity  
feature for sorting BLAST answer sets  
NEWS 14 DEC 02 Derwent World Patent Index: Japanese FI-TERM  
thesaurus added  
NEWS 15 DEC 02 PCTGEN enhanced with patent family and legal status  
display data from INPADOCDB  
NEWS 16 DEC 02 USGENE: Enhanced coverage of bibliographic and  
sequence information  
NEWS 17 DEC 21 New Indicator Identifies Multiple Basic Patent  
Records Containing Equivalent Chemical Indexing  
in CA/Caplus  
NEWS 18 JAN 12 Match STN Content and Features to Your Information  
Needs, Quickly and Conveniently  
NEWS 19 JAN 25 Annual Reload of MEDLINE database  
NEWS 20 FEB 16 STN Express Maintenance Release, Version 8.4.2, Is  
Now Available for Download  
NEWS 21 FEB 16 Derwent World Patents Index (DWPI) Revises Indexing  
of Author Abstracts  
NEWS 22 FEB 16 New FASTA Display Formats Added to USGENE and PCTGEN  
NEWS 23 FEB 16 INPADOCDB and INPAFAMDB Enriched with New Content  
and Features

NEWS 24 FEB 16 INSPEC Adding Its Own IPC codes and Author's E-mail  
Addresses

NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2,  
AND CURRENT DISCOVER FILE IS DATED 15 JANUARY 2010.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 16:16:43 ON 27 MAR 2010

=> FIL REG	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	0.44	0.44

FILE 'REGISTRY' ENTERED AT 16:17:34 ON 27 MAR 2010  
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STRUCTURE FILE UPDATES: 26 MAR 2010 HIGHEST RN 1214987-89-9  
DICTIONARY FILE UPDATES: 26 MAR 2010 HIGHEST RN 1214987-89-9

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TSCA INFORMATION NOW CURRENT THROUGH January 8, 2010.

Please note that search-term pricing does apply when  
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REGISTRY includes numerically searchable data for experimental and  
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experimental property data in the original document. For information  
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<http://www.cas.org/support/stngen/stdnoc/properties.html>

=>  
Uploading C:\Program Files\STNEXP\Queries\10541429\3\_27\_10\_1.str



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chain nodes :
1  2  3  4  5  6  7  9  11
chain bonds :
1-2  1-3  2-11  3-4  3-5  5-6  6-7  6-9
exact/norm bonds :
1-2  1-3  2-11  3-4  5-6  6-7  6-9
exact bonds :
3-5

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G1:CH3,Et,CF3,MeO,X

G2:Cb,Ak

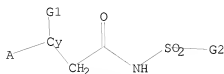
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Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:Atom 7:CLASS 9:CLASS 11:CLASS
Generic attributes :
6:
Saturation          : Unsaturated

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L1 STRUCTURE UPLOADED

=> D  
 L1 HAS NO ANSWERS  
 L1 STR



G1 Me, Et, CF3, MeO, X

G2 Cb, Ak

Structure attributes must be viewed using SIN Express query preparation.

=> S L1  
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 SAMPLE SCREEN SEARCH COMPLETED - 6806 TO ITERATE

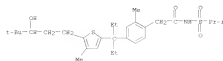
29.4% PROCESSED 2000 ITERATIONS 4 ANSWERS  
 INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
 BATCH \*\*COMPLETE\*\*  
 PROJECTED ITERATIONS: 131173 TO 141067  
 PROJECTED ANSWERS: 51 TO 493

L2 4 SEA SSS SAM L1

=> D SCAN

L2 4 ANIMLMS REGISTRY COPYRIGHT 2010 ACS on STN  
 IN Benzenesacetamide,  
 4-[[1-ethyl-1-[5-[3-hydroxy-4,4-dimethylpentyl]-4-methyl-  
 2-thienyl]propyl]-2-methyl-N-[[1-methylethyl)sulfonyl]-  
 MF C29 H45 N O4 S2



\*\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*\*

HOW MANY MORE ADDRESSES DO YOU WISH TO SCANT (1)=0

=> S L1 FULL  
FULL SEARCH INITIATED 16:18:06 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 137404 TO ITERATE

100.0% PROCESSED 137404 ITERATIONS 470 ANSWERS  
SEARCH TIME: 00.00.07

L3 470 SEA SSS FUL L1

=> FIL CAPLUS		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	191.54	191.98

FILE 'CAPLUS' ENTERED AT 16:18:27 ON 27 MAR 2010  
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FILE COVERS 1907 - 27 Mar 2010 VOL 152 ISS 14  
FILE LAST UPDATED: 26 Mar 2010 (20100326/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2009  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2009

Caplus now includes complete International Patent Classification (IPC) reclassification data for the first quarter of 2010.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L3  
L4 140 L3  
  
=> S L4 AND PY<2004  
24050550 PY<2004  
L5 102 L4 AND PY<2004  
  
=> S L4 AND PRY<2004  
4301790 PRY<2004

L6                    106 L4 AND PRY<2004

=> S L5 OR L6

L7                    109 L5 OR L6

=> D IBIB 1

LT ANSWER 1 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)  
 ACCESSION NUMBER: 2004:05723 CAPLUS  
 DOCUMENT NUMBER: 141135023  
 TITLE: Preparation of 5-methoxy-2-methylindole-3-acetonide  
 derivative, as potassium channel blockers for treating  
 ocular hypertension  
 INVENTOR(S): Fisher, Michael E.; Garcia, Maria L.; Kaczmarek,  
 Gregory J.; Melnik, Peter T.; Ramsey, William R.;  
 Boyd, Edward Andrew; Price, Stephen; Stibbard, John  
 March 6, 2004, Int., US; Everted Cat  
 POT Int. Appl., 159 pp.  
 CUSID: P14602  
 PATENT: Patient  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
MO 2004087053	A2	20041014	MO 2004-089028	20040324
MO 2004087053	A3	20050723		
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OTHER SOURCE(S): CASREACT 141:35023; MEDPAY 141:350073  
 CUSID: P14602  
 REFERENCE COUNT: 2  
 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE  
 FORMAT

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LONG DISPLAY FORMAT



=> D IBIB 2-5

L7 ANSWER 2 OF 109 CARLOS COPYRIGHT 2010 ACS ON STN  
 ACCESSION NUMBER: 2004:675732 CARLOS  
 DOCUMENT NUMBER: 141195512  
 TITLE: A preparation of 2-aryloxy acid derivatives,  
 useful  
 INVENTOR(S): For the treatment of IL-8 mediated diseases  
 Morosoni, Alessandro; Allegretti, Marcello; Bertini,  
 Riccardo; Contar, Maria Candida; Bisacci, Cinzia;  
 Calabita, Francesco  
 PATENT ASSIGNOR(S): Imperi S.p.A., Italy  
 SOURCE: PCT Int. Appl., 46 pp.  
 DOCUMENT TYPE: OTHER: P1432  
 LANGUAGE: Patent  
 FAMILY ACC. NUM. COUNT: English  
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
MO 2004049782	A2	20040919	MO 2004-EP1021	20040204
MO 2004049782	A3	20040916		
W: At, AG, AL, AM, AR, AU, AZ, BA, BB, BG, BR, BW, BY, BE, CA, CH, CN, CO, CU, CY, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GR, GM, GU, HK, HU, ID, IL, IN, JP, KE, KG, KP, KR, KZ, LA, LB, LG, LI, LU, LV, MA, MD, ME, MG, MK, MN, MU, MW, MY, NA, NI, NZ, OM, PA, PE, PG, PH, PL, PT, RO, RU, SD, SE, SI, SJ, SK, SL, SM, SN, SV, SZ, TC, TD, TM, TR, TT, TZ, UA, UG, US, UZ, VC, VE, VN, YU, ZA, ZM, ZW				
AO 2004210952	A1	20040919	AO 2004-210082	20040204
CA 2331582	A1	20040919	CA 2004-231182	20040204
EP 1592314	A2	20051102	EP 2004-70726	20040204
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CH 1169026	A	20040503	CH 2004-8006743	20040204
CH 10562311	C	20091125		
JP 2004314382	T	20040708	JP 2004-101731	20040204
MO 2354897	C2	20090927	MO 2003-127777	20040204
US 20040223842	A1	20041005	US 2003-141429	20031003
NO 2005040417	A	20050930	NO 2003-4017	20030930
PRIORITY APPL. INFO.: 1			EP 2003-2726	A 20030206
			MO 2004-EP1021	M 20040204

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN L805 DISPLAY FORMAT  
 OTHER SOURCE(S): MERRAT 141:139312

L7 ANSWER 2 OF 109 CARLOS COPYRIGHT 2010 ACS ON STN (Continued)  
 C5-CITING REF COUNT: 2 THERE ARE 2 CARLOS RECORDS THAT CITE THIS RECORD  
 REFERENCE COUNT: 3 (2 CITINGS)  
 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE IE FORMAT

L7 ANSWER 3 OF 109 CARLOS COPYRIGHT 2010 ACS ON STN  
 ACCESSION NUMBER: 2004:610219 CARLOS  
 DOCUMENT NUMBER: 141176068  
 TITLE: Variant treatment with (phenylalkyl)thiophenes as  
 vitamin D receptor modulators  
 INVENTOR(S): Nagpal, Sunil  
 PATENT ASSIGNOR(S): Dai-bally and Company, USA; Yee, Ying Kwong  
 SOURCE: PCT Int. Appl., 496 pp.  
 DOCUMENT TYPE: OTHER: P1432  
 LANGUAGE: Patent  
 FAMILY ACC. NUM. COUNT: English  
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
MO 2004043340	A2	20040729	MO 2004-036	20040107
MO 2004043340	A3	20051027		
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EP 1581925	A2	20051026	EP 2004-700149	20040107
EP 1581925	A3	20051214		
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US 20060133454	A1	20060622	US 2003-540667	20030624
PRIORITY APPL. INFO.: 1			US 2003-439579	P 20030110
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ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN L805 DISPLAY FORMAT  
 OTHER SOURCE(S): MERRAT 141:176068  
 C5-CITING REF COUNT: 2 THERE ARE 2 CARLOS RECORDS THAT CITE THIS RECORD  
 REFERENCE COUNT: 1 (2 CITINGS)  
 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE IE FORMAT

L7 ANSWER 4 OF 109 CARLOS COPYRIGHT 2010 ACS ON STN  
 ACCESSION NUMBER: 2004:1404526 CARLOS  
 DOCUMENT NUMBER: 140406826  
 TITLE: Preparation of N-benzylpiperazine derivatives as  
 chemokine receptor CCR1 antagonists useful as  
 immunomodulatory agents  
 INVENTOR(S): Blumberg, Laura C.; Brown, Matthew T.; Gawron,  
 Anderson S.; Gladue, Ronald P.; Hayward, Matthew N.;  
 Lundquist, Gregory P.; Ross, Christopher S.; Sherry,  
 Andre  
 PATENT ASSIGNOR(S): Pfizer Inc, USA  
 SOURCE: U.S. Pat. Appl. Publ., 58 pp.  
 DOCUMENT TYPE: OTHER: USNACO  
 LANGUAGE: Patent  
 FAMILY ACC. NUM. COUNT: English  
 PATENT INFORMATION: 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
MO 20040092129	A1	20040513	US 2003-686393	20031016
PRIORITY APPL. INFO.: 1			US 2002-621909	P 20021030

OTHER SOURCE(S): MERRAT 140:406826

LT ANSWER 5 OF 109 CAPLOS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 20041237283 CAPLOS

DOCUMENT NUMBER: 1401391297

TITLE: Preparation of piperazine derivatives as CCR1 antagonists  
 INVENTOR(S): Blumencamp, Laura Cook; Brown, Matthew Frank; Gawron, Anderson Sean; Gladson, Ronald Paul; Hayward, Matthew Merrill; Lomogolats, Gregory Dean; Posa, Christopher Stanley; Shavnya, Andre

PATENT ASSIGNER(S): Prime Products Inc., USA

SOURCE: PCT Int. Appl., 131 pp.

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004039376	A1	20040513	WO 2003-184612	20031020
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NO 2003269364	A1	20040525	NO 2003-269364	20031020
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EP 1583533	A1	20051012	EP 2003-753145	20031020
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MX 2005044610	A	20050609	MX 2003-4650	20050429
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<p>WO 2003-184612 W 20031020</p>				
<p>OTHER SOURCE(S): HANJAT 1401391297</p>				
<p>QS-CITING REF COUNT: 1 THERE ARE 1 CAPLOS RECORDS THAT CITE THIS RECORD</p>				
<p>REFERENCE COUNT: 3 [1 CITING(S)]</p>				
<p>3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE</p>				

FORMAT

LT ANSWER 5 OF 109 CAPLOS COPYRIGHT 2010 ACS on STN (Continued)

=> D HIS

(FILE 'HOME' ENTERED AT 16:16:43 ON 27 MAR 2010)

FILE 'REGISTRY' ENTERED AT 16:17:34 ON 27 MAR 2010

L1 STRUCTURE UPLOADED

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L3 470 S L1 FULL

FILE 'CAPLUS' ENTERED AT 16:18:27 ON 27 MAR 2010

L4 140 S L3

L5 102 S L4 AND PY<2004

L6 106 S L4 AND PRY<2004

L7 109 S L5 OR L6

=> S L4 AND PY<2003

22998523 PY<2003

L8 96 L4 AND PY<2003

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1.7 ANNEK 3 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)

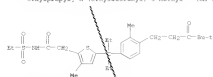
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633354-08-2P 633354-09-3P 633354-10-4P  
633354-11-7P 633354-12-8P 633354-13-9P

Me: PhC (Pharmacological activity); DM: Synthesis preparation; THP (Therapeutic use); BSC: Biological study; PREP (Preparation); USGS (USGS)

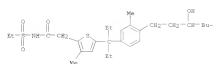
(VDR modulator prep. of [phenylalkyl]thiophenes as VDR modulators

for preventing or treating damage to human skin cells by chem. vesicants)

Me 633341-13-2 CAPLUS  
CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-4,4-dimethylpentyl)-3-methylphenyl]propyl]-3-methyl-*N*-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

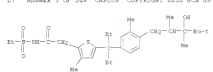


Me 633341-08-3 CAPLUS  
CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-4,4-dimethylpentyl)-3-methylphenyl]propyl]-3-methyl-*N*-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

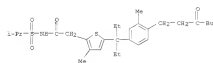


Me 633341-21-6 CAPLUS  
CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-2,4,4-trimethylpentyl)-3-methylphenyl]propyl]-3-methyl-*N*-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

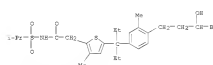
1.7 ANNEK 3 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)



Me 633341-23-0 CAPLUS  
CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-2,4,4-trimethylpentyl)-3-methylphenyl]propyl]-3-methyl-*N*-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

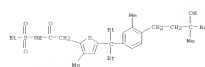


Me 633341-24-1 CAPLUS  
CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-2,4,4-trimethylpentyl)-3-methylphenyl]propyl]-3-methyl-*N*-(1-methylthio)ethylsulfonyl)-3-methyl- (CA INDEX NAME)

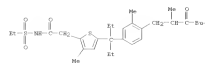


Me 633341-27-2 CAPLUS  
CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-2,4,4-trimethylpentyl)-3-methylphenyl]propyl]-3-methyl-*N*-(1-methylthio)ethylsulfonyl)-3-methyl-*N*-(1-methylthio)ethylsulfonyl)-3-methyl- (CA INDEX NAME)

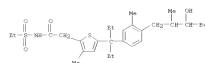
1.7 ANNEK 3 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)



Me 633341-22-7 CAPLUS  
CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[3-methyl-1-(2,4,4-trimethyl-3-oxopentyl)phenyl]propyl]-3-methyl-*N*-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

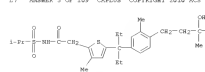


Me 633341-23-8 CAPLUS  
CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-2,4,4-trimethylpentyl)-3-methylphenyl]propyl]-3-methyl-*N*-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

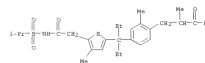


Me 633341-24-9 CAPLUS  
CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-2,4,4-trimethylpentyl)-3-methylphenyl]propyl]-3-methyl-*N*-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

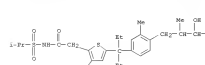
1.7 ANNEK 3 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)



Me 633341-28-3 CAPLUS  
CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[3-methyl-1-(2,4,4-trimethyl-3-oxopentyl)phenyl]propyl]-3-methyl-*N*-(1-methylthio)ethylsulfonyl)-3-methyl- (CA INDEX NAME)

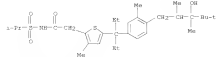


Me 633341-29-4 CAPLUS  
CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-2,4,4-trimethylpentyl)-3-methylphenyl]propyl]-3-methyl-*N*-(1-methylthio)ethylsulfonyl)-3-methyl- (CA INDEX NAME)

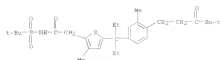


Me 633341-30-7 CAPLUS  
CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-2,4,4-trimethylpentyl)-3-methylphenyl]propyl]-3-methyl-*N*-(1-methylthio)ethylsulfonyl)-3-methyl- (CA INDEX NAME)

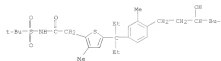
1.7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)



XX 633343-33-8 CAPLUS  
CN 2-Thiophenacetamide, N-[(1,3-dimethylthiazol-5-yl)-4-(4,6-dimethyl-3-oxopentyl)-3-methylphenyl]-3-methyl- (CA INDEX NAME)

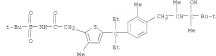


XX 633343-33-9 CAPLUS  
CN 2-Thiophenacetamide, N-[(1,3-dimethylthiazol-5-yl)-4-(1,3-hydroxy-4,4-tetramethylpentyl)-3-methylphenylpropyl]-3-methyl- (CA INDEX NAME)

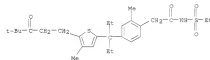


XX 633343-33-0 CAPLUS  
CN 2-Thiophenacetamide, N-[(1,3-dimethylthiazol-5-yl)-4-(1,3-hydroxy-7,4,4-tetramethylpentyl)-3-methylphenylpropyl]-3-methyl- (CA INDEX NAME)

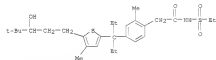
1.7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)



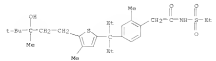
XX 633344-85-1 CAPLUS  
CN Benzenacetamide, 4-[1-(5-(4,4-dimethyl-3-oxopentyl)-4-methyl-2-thienyl)-2-ethylpropyl]-N-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)



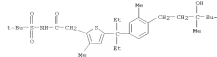
XX 633344-86-2 CAPLUS  
CN Benzenacetamide, 4-[1-ethyl-1-[3-(3-hydroxy-4,4-dimethylpentyl)-4-methyl-2-thienyl]propyl]-N-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)



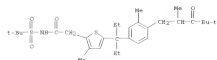
XX 633344-87-3 CAPLUS  
CN Benzenacetamide, 4-[1-ethyl-1-[5-(3-hydroxy-3,4,6-tetramethylpentyl)-4-methyl-2-thienyl]propyl]-N-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)



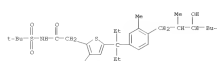
1.7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)



XX 633343-34-3 CAPLUS  
CN 2-Thiophenacetamide, N-[(1,3-dimethylthiazol-5-yl)-4-(1,3-hydroxy-4,4,4-trimethyl-3-oxopentyl)phenyl]propyl]-3-methyl- (CA INDEX NAME)



XX 633343-35-2 CAPLUS  
CN 2-Thiophenacetamide, N-[(1,3-dimethylthiazol-5-yl)-4-(1,3-hydroxy-7,4,4-tetramethylpentyl)-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)

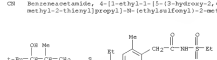


XX 633343-36-3 CAPLUS  
CN 2-Thiophenacetamide, N-[(1,3-dimethylthiazol-5-yl)-4-(1,3-hydroxy-7,4,4-tetramethylpentyl)-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)

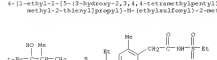
1.7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)



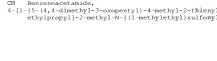
XX 633344-86-4 CAPLUS  
CN Benzenacetamide, 4-[1-ethyl-1-[4-methyl-5-(2,4,4-tetramethyl-3-oxopentyl)-2-thienyl]propyl]-N-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)



XX 633344-89-3 CAPLUS  
CN Benzenacetamide, 4-[1-ethyl-1-[5-(3-hydroxy-2,3,4,4-tetramethylpentyl)-4-methyl-2-thienyl]propyl]-N-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)



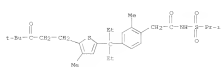
XX 633344-90-8 CAPLUS  
CN Benzenacetamide, 4-[1-ethyl-1-[5-(3-hydroxy-2,3,4,4-tetramethylpentyl)-4-methyl-2-thienyl]propyl]-N-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)



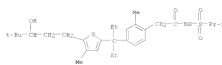
XX 633344-91-8 CAPLUS  
CN Benzenacetamide, 4-[1-ethyl-1-[4-methyl-3-oxopentyl]-4-methyl-2-thienyl]-3-ethylpropyl]-2-methyl-N-(1-methylthiazol-5-yl)-2-methyl- (CA INDEX NAME)



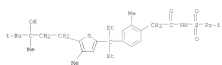
1.7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



RI 63344-92-0 CAPLUS  
 CN Benzenesulfonamide, 4-[[1-ethyl-1-[5-(3-hydroxy-4,4-dimethylpentyl)-4-methyl-2-thienyl]propyl]-2-methyl-8-[[1-methylethyl]sulfonyl]- (CA INDEX NAME)

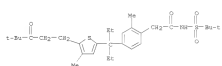


RI 63344-93-1 CAPLUS  
 CN Benzenesulfonamide, 4-[[1-ethyl-1-[3-(3-hydroxy-2,4,4-trimethylpentyl)-4-methyl-2-thienyl]propyl]-2-methyl-8-[[1-methylethyl]sulfonyl]- (CA INDEX NAME)

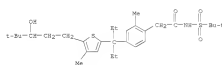


RI 63344-94-2 CAPLUS  
 CN Benzenesulfonamide, 4-[[1-ethyl-1-[3-(3-hydroxy-2,4,4-trimethylpentyl)-4-methyl-2-thienyl]propyl]-2-methyl-8-[[1-methylethyl]sulfonyl]- (CA INDEX NAME)

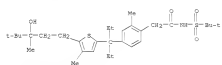
1.7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



RI 63344-98-6 CAPLUS  
 CN Benzenesulfonamide, N-[[1,1-dimethylethyl]sulfonyl]-4-[[1-ethyl-1-[5-(3-hydroxy-4,4-dimethylpentyl)-4-methyl-2-thienyl]propyl]-2-methyl- (CA INDEX NAME)

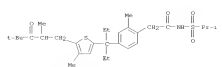


RI 63344-99-7 CAPLUS  
 CN Benzenesulfonamide, N-[[1,1-dimethylethyl]sulfonyl]-4-[[1-ethyl-1-[5-(3-hydroxy-2,4,4-trimethylpentyl)-4-methyl-2-thienyl]propyl]-2-methyl- (CA INDEX NAME)

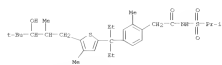


RI 63344-00-3 CAPLUS  
 CN Benzenesulfonamide, N-[[1,1-dimethylethyl]sulfonyl]-4-[[1-ethyl-1-[4-methyl-2-(2,4,4-trimethyl-3-oxopentyl)-2-thienyl]propyl]-2-methyl- (CA INDEX NAME)

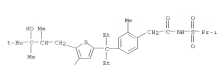
1.7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



RI 63344-95-3 CAPLUS  
 CN Benzenesulfonamide, 4-[[1-ethyl-1-[5-(3-hydroxy-2,4,4-trimethylpentyl)-4-methyl-2-thienyl]propyl]-2-methyl-8-[[1-methylethyl]sulfonyl]- (CA INDEX NAME)

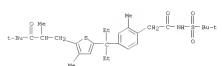


RI 63344-96-4 CAPLUS  
 CN Benzenesulfonamide, 4-[[1-ethyl-1-[5-(3-hydroxy-2,3,4,4-tetramethylpentyl)-4-methyl-2-thienyl]propyl]-2-methyl-8-[[1-methylethyl]sulfonyl]- (CA INDEX NAME)

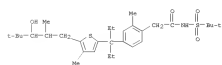


RI 63344-97-5 CAPLUS  
 CN Benzenesulfonamide, N-[[1,1-dimethylethyl]sulfonyl]-4-[[1-[5-(4,4-dimethyl-3-oxopentyl)-4-methyl-2-thienyl]-1-ethyl]propyl]-2-methyl- (CA INDEX NAME)

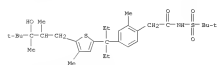
1.7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



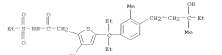
RI 63345-01-4 CAPLUS  
 CN Benzenesulfonamide, N-[[1,1-dimethylethyl]sulfonyl]-4-[[1-ethyl-1-[5-(3-hydroxy-2,4,4-trimethylpentyl)-4-methyl-2-thienyl]propyl]-2-methyl- (CA INDEX NAME)



RI 63345-02-5 CAPLUS  
 CN Benzenesulfonamide, N-[[1,1-dimethylethyl]sulfonyl]-4-[[1-ethyl-1-[5-(3-hydroxy-2,3,4,4-tetramethylpentyl)-4-methyl-2-thienyl]propyl]-2-methyl- (CA INDEX NAME)



RI 63350-14-8 CAPLUS  
 CN 2-Phenylphenylpropyl-8-methylsulfonyl-3-methyl- (CA INDEX NAME)



1.7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)

FIG 633550-15-3 CAPLUS  
 CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-3-methyl-1-penten-1-yl)-3-methylphenyl]propyl]-N-(ethanilsulfonyl)-3-methyl- (CA INDEX NAME)

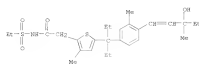


FIG 633550-16-0 CAPLUS  
 CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-ethyl-3-hydroxypentyl)-3-methylphenyl]propyl]-N-(ethanilsulfonyl)-3-methyl- (CA INDEX NAME)

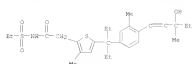


FIG 633550-17-1 CAPLUS  
 CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-ethyl-3-hydroxypentyl)-3-methylphenyl]propyl]-N-(ethanilsulfonyl)-3-methyl- (CA INDEX NAME)

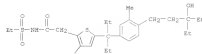


FIG 633550-18-2 CAPLUS  
 CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-ethyl-3-hydroxy-1-penten-1-yl)-3-methylphenyl]propyl]-N-(ethanilsulfonyl)-3-methyl- (CA INDEX NAME)



1.7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)

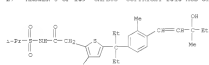


FIG 633550-22-8 CAPLUS  
 CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-3-methyl-1-penten-1-yl)-3-methylphenyl]propyl]-N-(1-methylethylsulfonyl)- (CA INDEX NAME)

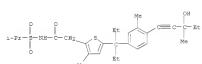


FIG 633550-23-9 CAPLUS  
 CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-ethyl-3-hydroxypentyl)-3-methylphenyl]propyl]-3-methyl-N-(1-methylethylsulfonyl)- (CA INDEX NAME)

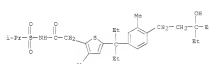


FIG 633550-24-0 CAPLUS  
 CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-ethyl-3-hydroxy-1-penten-1-yl)-3-methylphenyl]propyl]-3-methyl-N-(1-methylethylsulfonyl)- (CA INDEX NAME)

1.7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)

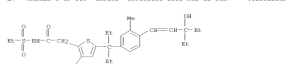


FIG 633550-19-3 CAPLUS  
 CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-3-methyl-1-penten-1-yl)-3-methylphenyl]propyl]-N-(ethanilsulfonyl)-3-methyl- (CA INDEX NAME)

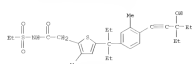


FIG 633550-20-6 CAPLUS  
 CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-3-methyl-1-penten-1-yl)-3-methylphenyl]propyl]-3-methyl-N-(1-methylethylsulfonyl)- (CA INDEX NAME)

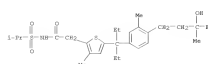


FIG 633550-21-7 CAPLUS  
 CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-3-methyl-1-penten-1-yl)-3-methylphenyl]propyl]-3-methyl-N-(1-methylethylsulfonyl)- (CA INDEX NAME)



1.7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)

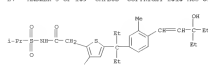


FIG 633550-25-1 CAPLUS  
 CN 2-Thiopheneacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-3-methyl-1-penten-1-yl)-3-methylphenyl]propyl]-3-methyl-N-(1-methylethylsulfonyl)- (CA INDEX NAME)

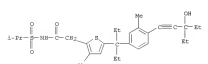


FIG 633550-26-2 CAPLUS  
 CN 2-Thiopheneacetamide, N-[(1,1-dimethylethylsulfonyl)-5-[1-ethyl-1-[4-(3-hydroxy-3-methyl-1-penten-1-yl)-3-methylphenyl]propyl]-3-methyl]- (CA INDEX NAME)

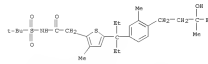
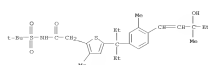
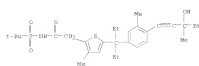


FIG 633550-27-3 CAPLUS  
 CN 2-Thiopheneacetamide, N-[(1,1-dimethylethylsulfonyl)-5-[1-ethyl-1-[4-(3-hydroxy-3-methyl-1-penten-1-yl)-3-methylphenyl]propyl]-3-methyl]- (CA INDEX NAME)

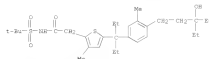


17 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)

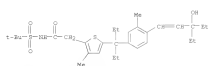
EN 63335-28-4 CAPLUS  
 CN 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-methyl-1-[4-(3-hydroxy-3-methyl-1-penten-1-yl)-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)



EN 63335-29-5 CAPLUS  
 CN 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(3-ethyl-3-hydroxypropyl)-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)

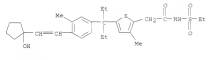


EN 63335-30-6 CAPLUS  
 CN 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(3-ethyl-3-hydroxy-3-penten-1-yl)-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)

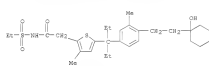


EN 63335-31-3 CAPLUS  
 CN 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(3-ethyl-3-hydroxy-1-penten-1-yl)-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)

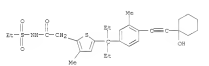
17 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)



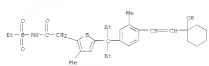
EN 63335-39-8 CAPLUS  
 CN 2-Thiopheneacetamide, N-[(1-methyl-1-[4-(2-[1-hydroxypropoxy]ethoxy)ethyl]-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)



EN 63334-00-4 CAPLUS  
 CN 2-Thiopheneacetamide, N-[(1-methyl-1-[4-(2-[1-hydroxypropoxy]ethoxy)ethyl]-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

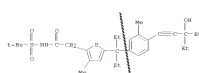


EN 63334-01-5 CAPLUS  
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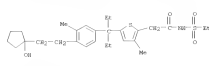


EN 63334-02-6 CAPLUS  
 CN 2-Thiopheneacetamide, N-[(1-methyl-1-[4-(2-[1-hydroxypropoxy]ethoxy)ethyl]-3-methylphenyl]propyl]-N-(1-methyl-1-ethylsulfonyl)-3-methyl- (CA INDEX NAME)

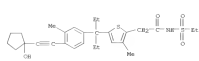
17 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)



EN 63333-96-5 CAPLUS  
 CN 2-Thiopheneacetamide, N-[(1-methyl-1-[4-(2-[1-hydroxypropoxy]ethoxy)ethyl]-3-methylphenyl]propyl]-N-(ethylsulfonyl)-3-methyl- (CA INDEX NAME)

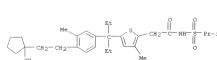


EN 63333-97-6 CAPLUS  
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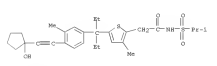


EN 63333-98-7 CAPLUS  
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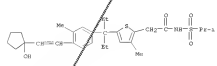
17 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)



EN 63334-03-7 CAPLUS  
 CN 2-Thiopheneacetamide, N-[(1-methyl-1-[4-(2-[1-hydroxypropoxy]ethoxy)ethyl]-3-methylphenyl]propyl]-N-(1-methyl-1-ethylsulfonyl)-3-methyl- (CA INDEX NAME)

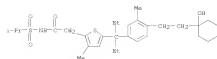


EN 63334-04-8 CAPLUS  
 CN 2-Thiopheneacetamide, N-[(1-methyl-1-[4-(2-[1-hydroxypropoxy]ethoxy)ethyl]-3-methylphenyl]propyl]-N-(1-methyl-1-ethylsulfonyl)-3-methyl- (CA INDEX NAME)

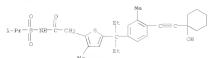


EN 63334-05 CAPLUS  
 CN 2-Thiopheneacetamide, N-[(1-methyl-1-[4-(2-[1-hydroxypropoxy]ethoxy)ethyl]-3-methylphenyl]propyl]-N-(1-methyl-1-ethylsulfonyl)-3-methyl- (CA INDEX NAME)

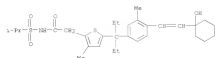
1,7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)



IN 63354-06-0 CAPLUS  
 CN 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(2-[1-hydroxycyclohexyl]ethenyl)-3-methylphenyl]propyl]-3-methyl-4-[(1-methylthio)ethyl]sulfonyl- (CA INDEX NAME)

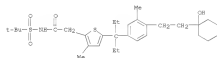


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 CN 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(2-[1-hydroxycyclohexyl]ethenyl)-3-methylphenyl]propyl]-3-methyl-4-[(1-methylthio)ethyl]sulfonyl- (CA INDEX NAME)

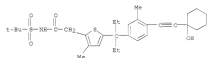


IN 63354-08-2 CAPLUS  
 CN 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(2-[1-hydroxycyclohexyl]ethenyl)-3-methylphenyl]propyl]-3-methyl-4-[(1-methylthio)ethyl]sulfonyl- (CA INDEX NAME)

1,7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)



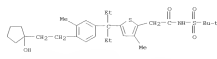
IN 63354-12-8 CAPLUS  
 CN 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(2-[1-hydroxycyclohexyl]ethenyl)-3-methylphenyl]propyl]-3-methyl-4-[(1-methylthio)ethyl]sulfonyl- (CA INDEX NAME)



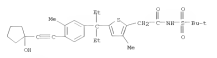
IN 63354-13-9 CAPLUS  
 CN 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(2-[1-hydroxycyclohexyl]ethenyl)-3-methylphenyl]propyl]-3-methyl-4-[(1-methylthio)ethyl]sulfonyl- (CA INDEX NAME)

ON-CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD  
 REFERENCE COUNT: 1 (2 CITINGS) THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

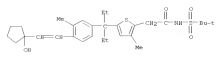
1,7 ANSWER 3 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)



IN 63354-09-3 CAPLUS  
 CN 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(2-[1-hydroxycyclohexyl]ethenyl)-3-methylphenyl]propyl]-3-methyl-4-[(1-methylthio)ethyl]sulfonyl- (CA INDEX NAME)



IN 63354-10-4 CAPLUS  
 CN 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(2-[1-hydroxycyclohexyl]ethenyl)-3-methylphenyl]propyl]-3-methyl-4-[(1-methylthio)ethyl]sulfonyl- (CA INDEX NAME)



IN 63354-11-7 CAPLUS  
 CN 2-Thiopheneacetamide, N-[(1,1-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(2-[1-hydroxycyclohexyl]ethenyl)-3-methylphenyl]propyl]-3-methyl-4-[(1-methylthio)ethyl]sulfonyl- (CA INDEX NAME)

1,7 ANSWER 4 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN

ACCESSION NUMBER: 2004192723 CAPLUS

DOCUMENT NUMBER: 140140626

TITLE: Preparation of N-benzylpiperazine derivatives as chemokine receptor CCR1 antagonists useful as immunomodulatory agents

INVENTOR(S): Blumberg, Laura C.; Brown, Matthew T.; Gwano, Anderson S.; Gladiou, Ronald P.; Hayward, Matthew M.; Lundquist, Gregory B.; Rosa, Christopher S.; Shennya, Andre

PATENT ASSIGNEE(S): Pfizer Inc, USA

SOURCE: U.S. Pat. Appl. Publ., 58 pp.

COBISH: USNCSO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COBISH: 2

PATENT INFORMATION: 1

PRIORITY APPL. INFO.: US 2004-0092529

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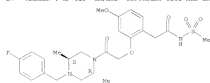
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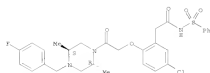


1,7 ANSWER 4 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)

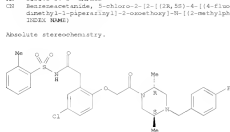


XX 519173-96-7 CAPLUS  
CN Benzenesulfonamide, 5-chloro-2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxyethyl-N-(phenylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.



Absolute stereochemistry.

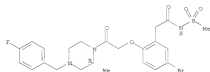


XX 519173-99-3 CAPLUS  
CN Benzenesulfonamide, 5-chloro-N-(methylsulfonyl)-2-[(2R,5S)-4-[(4-

1,7 ANSWER 4 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)

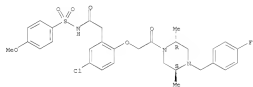
piperazinyl]-2-oxyethyl-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.



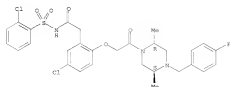
XX 519174-03-3 CAPLUS  
CN Benzenesulfonamide, 5-chloro-2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxyethyl-N-(4-methoxyphenylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.



XX 519174-04-0 CAPLUS  
CN Benzenesulfonamide, 5-chloro-N-[(2-chlorophenyl)sulfonyl]-2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxyethyl-N-(1-methylphenylsulfonyl)- (CA INDEX NAME)

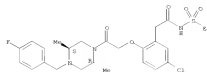
Absolute stereochemistry.



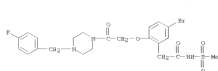
1,7 ANSWER 4 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)

fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxyethyl)- (CA INDEX NAME)

Absolute stereochemistry.

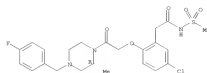


XX 519174-02-6 CAPLUS  
CN Benzenesulfonamide, 5-bromo-2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-1-piperazinyl]-2-oxyethyl-N-(methylsulfonyl)- (CA INDEX NAME)



XX 519174-03-7 CAPLUS  
CN Benzenesulfonamide, 5-chloro-2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2-methyl-1-piperazinyl]-2-oxyethyl-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

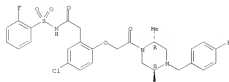


XX 519174-02-8 CAPLUS  
CN Benzenesulfonamide, 5-bromo-2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2-methyl-1-

1,7 ANSWER 4 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)

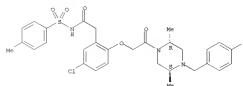
piperazinyl]-2-oxyethyl-N-(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.



XX 519174-06-2 CAPLUS  
CN Benzenesulfonamide, 5-chloro-2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxyethyl-N-(4-methoxyphenylsulfonyl)- (CA INDEX NAME)

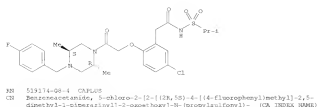
Absolute stereochemistry.



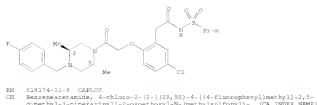
XX 519174-07-3 CAPLUS  
CN Benzenesulfonamide, 5-chloro-2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxyethyl-N-(1-methylethylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

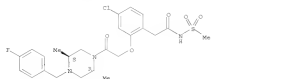
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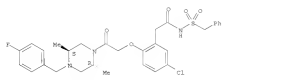
Absolute stereochemistry.



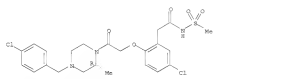
Absolute stereochemistry.



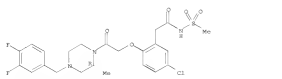
Absolute stereochemistry.



Absolute stereochemistry.

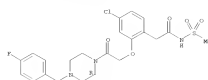


Absolute stereochemistry.

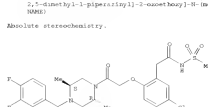


17 ANSWER 4 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

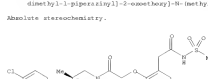
Absolute stereochemistry.



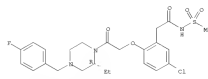
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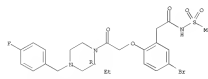
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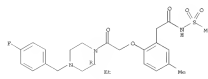
Absolute stereochemistry.



Absolute stereochemistry.



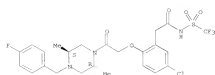
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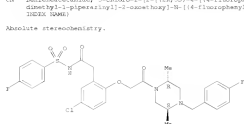




1.7 ANSWER 5 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

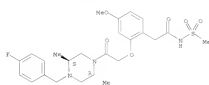


Absolute stereochemistry.

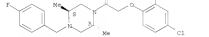


519173-95-6 CAPLUS  
 CH Benzeneacetamide,  
 2-[2-[(12R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-  
 piperazinyl]-2-oxoethyl]-N-(methoxysulfonyl)- (CA INDEX NAME)

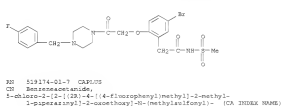
Absolute stereochemistry.



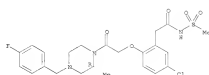
1.7 ANSWER 5 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



519174-02-8 CAPLUS  
 CH Benzeneacetamide,  
 5-bromo-2-[2-[(12R,5S)-4-[(4-fluorophenyl)methyl]-2-methyl-1-  
 piperazinyl]-2-oxoethyl]-N-(methoxysulfonyl)- (CA INDEX NAME)



Absolute stereochemistry.



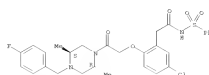
519174-04-0 CAPLUS  
 CH Benzeneacetamide,  
 5-chloro-2-[2-[(12R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-  
 piperazinyl]-2-oxoethyl]-N-(methoxysulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

1.7 ANSWER 5 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

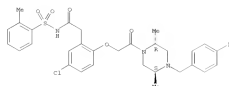
519173-96-7 CAPLUS  
 CH Benzeneacetamide, 5-chloro-2-[2-[(12R,5S)-4-[(4-fluorophenyl)methyl]-2,5-  
 dimethyl-1-piperazinyl]-2-oxoethyl]-N-(phenylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.



519173-97-8 CAPLUS  
 CH Benzeneacetamide, 5-chloro-2-[2-[(12R,5S)-4-[(4-fluorophenyl)methyl]-2,5-  
 dimethyl-1-piperazinyl]-2-oxoethyl]-N-(12-methylphenyl)sulfonyl- (CA INDEX NAME)

Absolute stereochemistry.

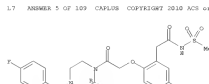


519173-98-9 CAPLUS  
 CH Benzeneacetamide, 5-chloro-N-(ethylsulfonyl)-2-[2-[(12R,5S)-4-[(4-  
 fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethyl]- (CA INDEX NAME)

Absolute stereochemistry.

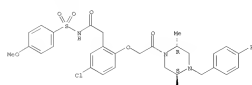


1.7 ANSWER 5 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



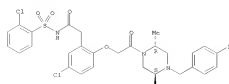
519174-06-2 CAPLUS  
 CH Benzeneacetamide, 5-bromo-2-[2-[(12R,5S)-4-[(4-fluorophenyl)methyl]-2,5-  
 dimethyl-1-piperazinyl]-2-oxoethyl]-N-(4-methoxyphenyl)sulfonyl- (CA INDEX NAME)

Absolute stereochemistry.



519174-07-3 CAPLUS  
 CH Benzeneacetamide, 5-chloro-2-[2-[(12R,5S)-4-[(4-fluorophenyl)methyl]-2,5-  
 dimethyl-1-piperazinyl]-2-oxoethyl]-N-(4-methoxyphenyl)sulfonyl- (CA INDEX NAME)

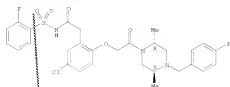
Absolute stereochemistry.



519174-08-4 CAPLUS  
 CH Benzeneacetamide, 5-chloro-2-[2-[(12R,5S)-4-[(4-fluorophenyl)methyl]-2,5-  
 dimethyl-1-piperazinyl]-2-oxoethyl]-N-(4-methoxyphenyl)sulfonyl- (CA INDEX NAME)

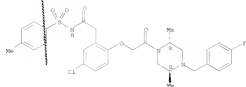
1,7 ANNEK 5 OF 109 CAPLOS COPYRIGHT 2010 ACS on STN (Continued)  
INDEX NAME

Absolute stereochemistry.



XX 519174-06-2 CAPLOS  
CN Benzenesacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxyethyl]-N-[(1-methylethyl)amino]yl- (CA INDEX NAME)

Absolute stereochemistry.

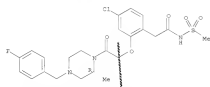


XX 519174-01-3 CAPLOS  
CN Benzenesacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxyethyl]-N-[(1-methylethyl)amino]yl- (CA INDEX NAME)

Absolute stereochemistry.

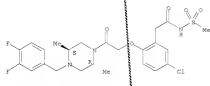
1,7 ANNEK 5 OF 109 CAPLOS COPYRIGHT 2010 ACS on STN (Continued)

Absolute stereochemistry.



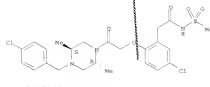
XX 519174-13-1 CAPLOS  
CN Benzenesacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(3,4-difluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxyethyl]-N-[(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.



XX 519174-14-2 CAPLOS  
CN Benzenesacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-chlorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxyethyl]-N-[(methylsulfonyl)- (CA INDEX NAME)

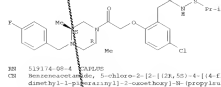
Absolute stereochemistry.



XX 519174-16-4 CAPLOS  
CN Benzenesacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxyethyl]-N-[(phenylmethyl)amino]yl- (CA INDEX NAME)

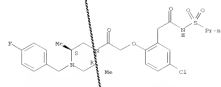
1,7 ANNEK 5 OF 109 CAPLOS COPYRIGHT 2010 ACS on STN (Continued)

Absolute stereochemistry.



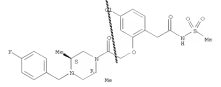
XX 519174-08-4 CAPLOS  
CN Benzenesacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxyethyl]-N-[(propylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.



XX 519174-11-9 CAPLOS  
CN Benzenesacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxyethyl]-N-[(methylsulfonyl)- (CA INDEX NAME)

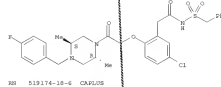
Absolute stereochemistry.



XX 519174-12-0 CAPLOS  
CN Benzenesacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2-methyl-1-piperazinyl]-2-oxyethyl]-N-[(methylsulfonyl)- (CA INDEX NAME)

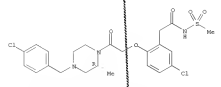
1,7 ANNEK 5 OF 109 CAPLOS COPYRIGHT 2010 ACS on STN (Continued)

Absolute stereochemistry.



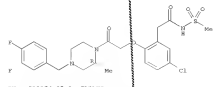
XX 519174-16-4 CAPLOS  
CN Benzenesacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-chlorophenyl)methyl]-2-methyl-1-piperazinyl]-2-oxyethyl]-N-[(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.



XX 519174-19-7 CAPLOS  
CN Benzenesacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(3,4-difluorophenyl)methyl]-2-methyl-1-piperazinyl]-2-oxyethyl]-N-[(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

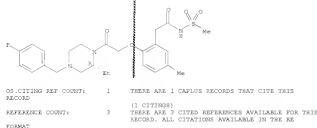
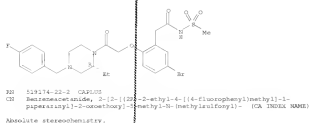
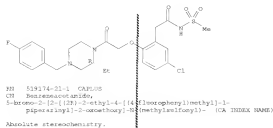


XX 519174-20-0 CAPLOS  
CN Benzenesacetamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2-methyl-1-piperazinyl]-2-oxyethyl]-N-[(methylsulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 5 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

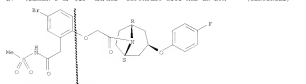
L7 ANSWER 5 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



L7 ANSWER 6 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 149146011  
 DOCUMENT NUMBER: 149146011  
 TITLE: Preparation of bicyclic piperidine derivatives as antagonists of the CCR1 chemokine receptor  
 INVENTOR(S): Blumberg, Laura Cook; Brown, Matthew Frank; Hayward, Matthew Merrill; Hux, Christopher Stanley  
 PATENT ASSIGNER(S): Pfizer Products Inc., USA  
 SOURCE: PCT Int. Appl., 99 pp.  
 CODE(S): P20022  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

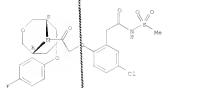
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1.7 ANSWER 6 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



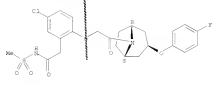
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 CH Benzenecetamide, 5-chloro-2-[2-[(17-endo-7-(4-fluorophenyl)-3-oxa-9-azabicyclo[3.2.1]non-9-yl)-2-oxoethyl]-8-(methylsulfonyl)-] (CA INDEX NAME)

Relative stereochemistry.



30 651598-92-3 CAPLUS  
 CH Benzenecetamide, 5-chloro-2-[2-[(17-endo-3-(4-fluorophenyl)-8-azabicyclo[3.2.1]non-8-yl)-2-oxoethyl]-8-(methylsulfonyl)-] (CA INDEX NAME)

Relative stereochemistry.



OR CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD

1.7 ANSWER 7 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 149146607  
 TITLE: Preparation of piperidylketones as selective inhibitors of macrophage inflammatory protein 1a (MIP-1a) binding to CCR3 chemokine receptors.  
 INVENTOR(S): Blumberg, Laura Cook; Brown, Matthew Frank; Hayward, Matthew Merrill; Posa, Christopher Stanley  
 PATENT ASSIGNOR(S): Pfizer Inc., USA  
 SOURCE: PCT Int. Appl., 62 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION: 1

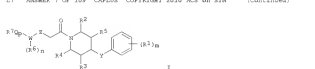
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004003550	A1	20040129	WO 2003-282876	20030707
US 6,511,477	A1	20040209	US 2003-242941	20030707
EP 1534677	A1	20050603	EP 2003-765230	20030707
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US 2004004365	A1	20040403	US 2003-436944	20030707
BR 2004004366	A	20070531	BR 2004-004366	20041229
EA 2005000067	A	20051102	EA 2005-07	20050104
MX 2005003780	A	20050321	MX 2005-380	20050104
FR3017777 APPL. IMPROV.	FR	2002-397109	P 20020718	
WO 2003-182876	M	20030707		

OTHER SOURCE(S): MARKAP 140146607

1.7 ANSWER 6 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE IE FORMAT

1.7 ANSWER 7 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



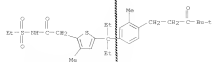
AB Title compds. [1] m = 1-5; n = 0-4; p = 0-3; Q = alkyl; X = aryl, heteroaryl; Y = O, NR2; R5 = R, alkyl; Z = O, NR2; R5 = R, alkyl, Ar, R1 = H, halo, cyano, NO2, CF3, OCF3, alkyl, OR, alkylcarbamoyl, alkoxycarbonyl, (halo)alkyl; R6 = H, halo, (halo)alkyl, cyano, alkoxycarbonyl, alkylcarbamoyl, (halo)alkyl; R7 = H, halo, (halo)alkyl, dialkylaminoalkylaminocarbonyl, alkoxycarbonyl, ureido, aminocarbonyl, alkylaminocarbonyl, aminocarbonyl, heteroaryloxy, unsaturatedalkylaminocarbonyl, etc.; 21 of 82-85 = alkyl, were prepared. Thus, 2-[2-(endo-4-(4-fluorophenyl)-1-(4-(4-fluorophenyl)piperidin-1-yl)ethanone (preparation given) in CDCl3 was with Et3N and Ph chloroformate, the reaction was stirred at ambient temperature for 4 h, concentrated in vacuo, and the resulting residue dissolved in methanol followed by bubbling in ammonia gas for 10 min and stirred overnight at ambient temperature to give [5-chloro-2-[2-[(4-(4-fluorophenyl)piperidin-1-yl)-2-oxoethyl]phenyl]urea. 1 Inhibited chemotaxis with IC50 < 10 nM.

BT 651301-03-09 651301-07-49  
 N-[5-chloro-2-[2-[(4-(4-fluorophenyl)piperidin-1-yl)-2-oxoethyl]phenyl]acetyl]methanesulfonamide  
 RL POC (Pharmacological activity); SPW (Synthetic preparation); THP (Therapeutic use); BTOL (Biological study); PEP (Preparation); URES (Uses)  
 (preparation of piperidylketones as selective inhibitors of macrophage inflammatory protein 1a (MIP-1a) binding to CCR3 chemokine receptors)  
 30 651301-03-0 CAPLUS  
 CH Benzenecetamide, 5-chloro-2-[2-[(17,45,55)-4-(4-fluorophenyl)-2,1-dimethyl-1-piperidinyl]-2-oxoethyl]-8-(methylsulfonyl)-] (CA INDEX NAME)

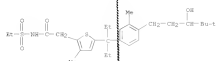
Relative stereochemistry.



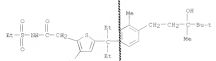
1,7 ANMEK 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



633343-20-5 CAPLUS  
CN 2-Thiophenacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-2,4,4-trimethylpentyl)-3-methylphenyl]propyl]-3-methyl-5-oxo-1-ethyl-1,4-dihydro-2H-thiopyran-3-yl- (CA INDEX NAME)

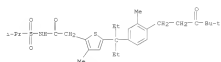


633343-21-6 CAPLUS  
CN 2-Thiophenacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-2,4,4-trimethylpentyl)-3-methylphenyl]propyl]-3-methyl-5-oxo-1-ethyl-1,4-dihydro-2H-thiopyran-3-yl- (CA INDEX NAME)

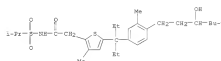


633343-22-7 CAPLUS  
CN 2-Thiophenacetamide, 5-[1-ethyl-1-[3-methyl-4-(2,4,4-trimethyl-3-oxopentyl)phenyl]propyl]-3-methyl-5-oxo-1-ethyl-1,4-dihydro-2H-thiopyran-3-yl- (CA INDEX NAME)

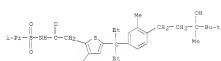
1,7 ANMEK 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



633343-24-1 CAPLUS  
CN 2-Thiophenacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-4,6-dimethylpentyl)-3-methylphenyl]propyl]-3-methyl-5-oxo-1-ethyl-1,4-dihydro-2H-thiopyran-3-yl- (CA INDEX NAME)

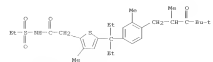


633343-27-2 CAPLUS  
CN 2-Thiophenacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-3,4,4-trimethylpentyl)-3-methylphenyl]propyl]-3-methyl-5-oxo-1-ethyl-1,4-dihydro-2H-thiopyran-3-yl- (CA INDEX NAME)

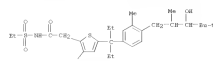


633343-28-3 CAPLUS  
CN 2-Thiophenacetamide, 5-[1-ethyl-1-[3-methyl-4-(2,4,4-trimethyl-3-oxopentyl)phenyl]propyl]-3-methyl-5-oxo-1-ethyl-1,4-dihydro-2H-thiopyran-3-yl- (CA INDEX NAME)

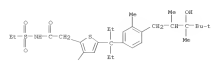
1,7 ANMEK 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



633343-23-8 CAPLUS  
CN 2-Thiophenacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-2,4,4-trimethylpentyl)-3-methylphenyl]propyl]-3-methyl-5-oxo-1-ethyl-1,4-dihydro-2H-thiopyran-3-yl- (CA INDEX NAME)

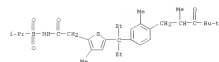


633343-24-9 CAPLUS  
CN 2-Thiophenacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-2,3,4,4-tetramethylpentyl)-3-methylphenyl]propyl]-3-methyl-5-oxo-1-ethyl-1,4-dihydro-2H-thiopyran-3-yl- (CA INDEX NAME)

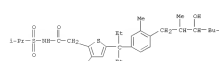


633343-25-0 CAPLUS  
CN 2-Thiophenacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-2,3,4,4-tetramethylpentyl)-3-methylphenyl]-1-ethylpropyl]-3-methyl-5-oxo-1-ethyl-1,4-dihydro-2H-thiopyran-3-yl- (CA INDEX NAME)

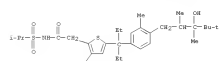
1,7 ANMEK 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



633343-29-4 CAPLUS  
CN 2-Thiophenacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-2,4,4-trimethylpentyl)-3-methylphenyl]propyl]-3-methyl-5-oxo-1-ethyl-1,4-dihydro-2H-thiopyran-3-yl- (CA INDEX NAME)

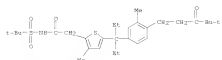


633343-30-7 CAPLUS  
CN 2-Thiophenacetamide, 5-[1-ethyl-1-[4-(3-hydroxy-2,3,4,4-tetramethylpentyl)-3-methylphenyl]propyl]-3-methyl-5-oxo-1-ethyl-1,4-dihydro-2H-thiopyran-3-yl- (CA INDEX NAME)

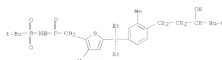


633343-31-8 CAPLUS  
CN 2-Thiophenacetamide, 5-[1-ethyl-1-[3-methyl-4-(2,4,4-trimethyl-3-oxopentyl)-3-methylphenyl]-1-ethylpropyl]-3-methyl-5-oxo-1-ethyl-1,4-dihydro-2H-thiopyran-3-yl- (CA INDEX NAME)

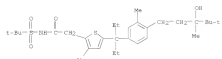
1.7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



633341-32-9 CAPLUS  
 CN 2-Thiophenacetamide, N-[(1,1-dimethylethylsulfonyl)-5-[1-ethyl-1-[4-(3-hydroxy-4,4-dimethylpentyl)-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)

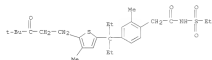


633341-33-0 CAPLUS  
 CN 2-Thiophenacetamide, N-[(1,1-dimethylethylsulfonyl)-5-[1-ethyl-1-[4-(3-hydroxy-2,4,4-tetramethylpentyl)-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)

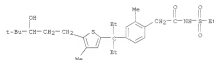


633341-34-1 CAPLUS  
 CN 2-Thiophenacetamide, N-[(1,1-dimethylethylsulfonyl)-5-[1-ethyl-1-[3-methyl-4-(2,4,4-tetramethyl-3-oxopentyl)phenyl]propyl]-3-methyl- (CA INDEX NAME)

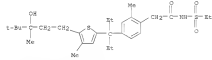
1.7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



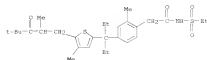
633344-86-2 CAPLUS  
 CN Benzeneacetamide, 4-[1-ethyl-1-[5-(3-hydroxy-4,4-dimethylpentyl)-2-thienylpropyl]-2-methyl-N-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)



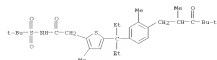
633344-87-3 CAPLUS  
 CN Benzeneacetamide, 4-[1-ethyl-1-[5-(3-hydroxy-3,4,4-trimethylpentyl)-4-methyl-2-thienylpropyl]-N-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)



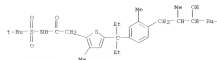
633344-88-4 CAPLUS  
 CN Benzeneacetamide, 4-[1-ethyl-1-[4-methyl-5-(2,4,4-tetramethyl-3-oxopentyl)-2-methylthienyl]propyl]-N-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)



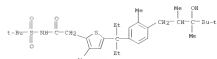
1.7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



633341-35-2 CAPLUS  
 CN 2-Thiophenacetamide, N-[(1,1-dimethylethylsulfonyl)-5-[1-ethyl-1-[4-(3-hydroxy-2,4,4-tetramethylpentyl)-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)



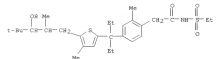
633341-36-3 CAPLUS  
 CN 2-Thiophenacetamide, N-[(1,1-dimethylethylsulfonyl)-5-[1-ethyl-1-[4-(3-hydroxy-2,3,4,4-tetramethylpentyl)-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)



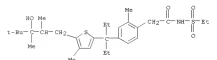
633344-85-1 CAPLUS  
 CN Benzeneacetamide, 4-[1-[1-(4,4-dimethyl-2-oxopentyl)-2-methyl-1-ethylpropyl]-N-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)

1.7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

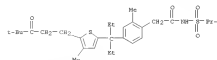
633344-89-5 CAPLUS  
 CN Benzeneacetamide, 4-[1-ethyl-1-[5-(3-hydroxy-2,4,4-tetramethylpentyl)-4-methyl-2-thienylpropyl]-N-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)



633344-90-8 CAPLUS  
 CN Benzeneacetamide, 4-[1-ethyl-1-[5-(3-hydroxy-2,3,4,4-tetramethylpentyl)-4-methyl-2-thienylpropyl]-N-(ethylsulfonyl)-2-methyl- (CA INDEX NAME)



633344-91-9 CAPLUS  
 CN Benzeneacetamide, 4-[1-[5-(4,4-dimethyl-2-oxopentyl)-4-methyl-2-thienyl]-1-ethylpropyl]-2-methyl-N-[(1-methylethylsulfonyl)-2-methyl- (CA INDEX NAME)



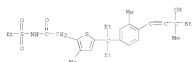
633344-92-0 CAPLUS  
 CN Benzeneacetamide, 4-[1-ethyl-1-[5-(3-hydroxy-4,4-dimethylpentyl)-4-methyl-2-thienyl]-2-methyl-N-[(1-methylethylsulfonyl)-2-methyl- (CA INDEX NAME)



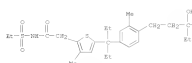


1.7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

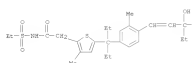
30 633350-16-0 CAPLUS  
 CN 2-Thiophenecarboxamide, 5-[1-ethyl-1-[4-(3-hydroxy-3-methyl-1-penten-1-yl)-3-methylphenyl]propyl]-N-(ethanysulfonyl)-3-methyl- (CA INDEX NAME)



30 633350-17-1 CAPLUS  
 CN 2-Thiophenecarboxamide, 5-[1-ethyl-1-[4-(3-ethyl-3-hydroxypentyl)-3-methylphenyl]propyl]-N-(ethanysulfonyl)-3-methyl- (CA INDEX NAME)



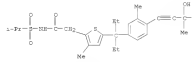
30 633350-18-2 CAPLUS  
 CN 2-Thiophenecarboxamide, 5-[1-ethyl-1-[4-(3-ethyl-3-hydroxy-1-penten-1-yl)-3-methylphenyl]propyl]-N-(ethanysulfonyl)-3-methyl- (CA INDEX NAME)



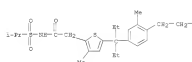
30 633350-19-3 CAPLUS  
 CN 2-Thiophenecarboxamide, 5-[1-ethyl-1-[4-(3-ethyl-3-hydroxy-1-penten-1-yl)-3-methylphenyl]propyl]-N-(ethanysulfonyl)-3-methyl- (CA INDEX NAME)



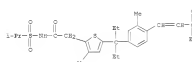
1.7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



30 633350-23-9 CAPLUS  
 CN 2-Thiophenecarboxamide, 5-[1-ethyl-1-[4-(3-ethyl-3-hydroxypentyl)-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

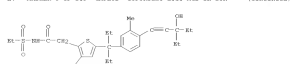


30 633350-24-0 CAPLUS  
 CN 2-Thiophenecarboxamide, 5-[1-ethyl-1-[4-(3-ethyl-3-hydroxy-1-penten-1-yl)-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

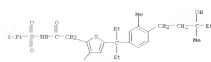


30 633350-25-1 CAPLUS  
 CN 2-Thiophenecarboxamide, 5-[1-ethyl-1-[4-(3-ethyl-3-hydroxy-1-penten-1-yl)-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)

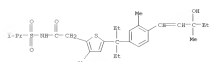
1.7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



30 633350-26-4 CAPLUS  
 CN 2-Thiophenecarboxamide, 5-[1-ethyl-1-[4-(3-hydroxy-3-methylpentyl)-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)



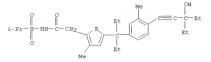
30 633350-27-7 CAPLUS  
 CN 2-Thiophenecarboxamide, 5-[1-ethyl-1-[4-(3-hydroxy-3-methyl-1-penten-1-yl)-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)



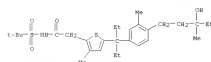
30 633350-28-8 CAPLUS  
 CN 2-Thiophenecarboxamide, 5-[1-ethyl-1-[4-(3-hydroxy-3-methyl-1-penten-1-yl)-3-methylphenyl]propyl]-3-methyl-N-[(1-methylethyl)sulfonyl]- (CA INDEX NAME)



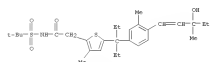
1.7 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



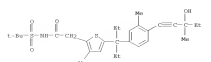
30 633350-26-2 CAPLUS  
 CN 2-Thiophenecarboxamide, N-[(1,2-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(3-hydroxy-3-methylpentyl)-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)



30 633350-27-3 CAPLUS  
 CN 2-Thiophenecarboxamide, N-[(1,2-dimethylethyl)sulfonyl]-5-[1-ethyl-1-[4-(3-hydroxy-3-methyl-1-penten-1-yl)-3-methylphenyl]propyl]-3-methyl- (CA INDEX NAME)



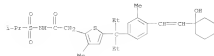
30 633350-28-4 CAPLUS  
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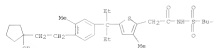


17 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

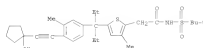
REI 633354-07-3 CAPLUS  
 CH 2-Thiopheneacetamide, N-[[1,1-dimethyl-1-[4-[[2-[(1-hydroxycyclohexyl)ethenyl]-3-methylphenyl]propyl]-3-methyl-5-[(1,1-dimethyl-1-[4-[[2-[(1-hydroxycyclohexyl)ethenyl]-3-methylphenyl]propyl]-3-methyl-1-CA INDEX  
 NAME]



REI 633354-08-2 CAPLUS  
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 NAME]

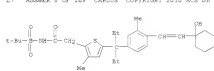


REI 633354-09-3 CAPLUS  
 CH 2-Thiopheneacetamide, N-[[1,1-dimethyl-1-[4-[[2-[(1-hydroxycyclohexyl)ethenyl]-3-methylphenyl]propyl]-3-methyl-1-CA INDEX  
 NAME]



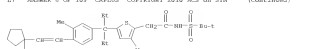
REI 633354-10-6 CAPLUS  
 CH 2-Thiopheneacetamide, N-[[1,1-dimethyl-1-[4-[[2-[(1-hydroxycyclohexyl)ethenyl]-3-methylphenyl]propyl]-3-methyl-1-CA INDEX  
 NAME]

17 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

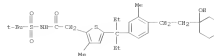


OS CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS  
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 REFERENCE COUNT: 5 (5 CITINGS)  
 THESE ARE 5 CITED REFERENCES AVAILABLE FOR THIS  
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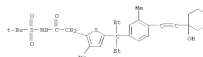
17 ANSWER 8 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



REI 633354-13-7 CAPLUS  
 CH 2-Thiopheneacetamide, N-[[1,1-dimethyl-1-[4-[[2-[(1-hydroxycyclohexyl)ethenyl]-3-methylphenyl]propyl]-3-methyl-1-CA INDEX  
 NAME]



REI 633354-12-8 CAPLUS  
 CH 2-Thiopheneacetamide, N-[[1,1-dimethyl-1-[4-[[2-[(1-hydroxycyclohexyl)ethenyl]-3-methylphenyl]propyl]-3-methyl-1-CA INDEX  
 NAME]



REI 633354-12-9 CAPLUS  
 CH 2-Thiopheneacetamide, N-[[1,1-dimethyl-1-[4-[[2-[(1-hydroxycyclohexyl)ethenyl]-3-methylphenyl]propyl]-3-methyl-1-CA INDEX  
 NAME]

17 ANSWER 9 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007-670991 CAPLUS  
 DOCUMENT NUMBER: 139-44172  
 TITLE: Silver halide photographic material containing  
 methine

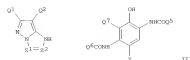
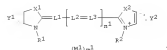
INVENTOR(S): dym and co, inc  
 Nakanuma, Aiko  
 PATENT ASSIGNER(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 70 pp.  
 CODEM: JF004MF

DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1

ENTRY INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003172994	A	20030620	JP 2002-236352	20030914
US 20040038159	B2	20040105	US 2002-251841	20020923
US 6828087	B2	20041207	US 2004-927469	20040827
US 20050037286	A1	20050217		
US 7052827	B2	20060530	JP 2001-293949	A 20010926
FR2837749B1	INFO.		US 2002-251841	A1 20020923

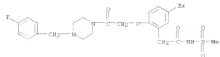
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN L505 DISPLAY FORMAT  
 OTHER SOURCE(S): MILEST 139-44172  
 GI





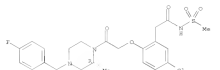


17 ANSWER 10 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)  
 EN 519174-02-6 CAPLUS  
 CN Benzenesulfonamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2-piperazinyl]-2-oxoethoxy]-N-(methanesulfonyl)- (CA INDEX NAME)



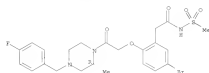
EN 519174-02-7 CAPLUS  
 CN Benzenesulfonamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2-methyl-1-piperazinyl]-2-oxoethoxy]-N-(methanesulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

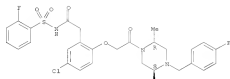


EN 519174-02-8 CAPLUS  
 CN Benzenesulfonamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2-methyl-1-piperazinyl]-2-oxoethoxy]-N-(methanesulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.

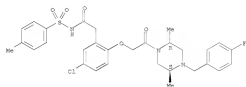


17 ANSWER 10 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)



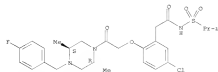
EN 519174-04-2 CAPLUS  
 CN Benzenesulfonamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(methanesulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.



EN 519174-07-3 CAPLUS  
 CN Benzenesulfonamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(1-methylethyl)sulfonyl)- (CA INDEX NAME)

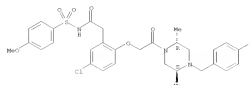
Absolute stereochemistry.



EN 519174-08-4 CAPLUS  
 CN Benzenesulfonamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(propylsulfonyl)- (CA INDEX NAME)

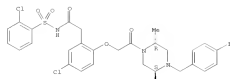
17 ANSWER 10 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)  
 EN 519174-03-9 CAPLUS  
 CN Benzenesulfonamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(4-methoxyphenyl)sulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.



EN 519174-04-0 CAPLUS  
 CN Benzenesulfonamide, 5-chloro-N-[(2-chlorophenyl)sulfonyl]-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]- (CA INDEX NAME)

Absolute stereochemistry.



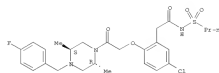
EN 519174-05-1 CAPLUS  
 CN Benzenesulfonamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(2-chlorophenyl)sulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.



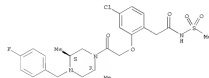
17 ANSWER 10 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)

Absolute stereochemistry.



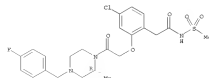
EN 519174-11-9 CAPLUS  
 CN Benzenesulfonamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(methanesulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.



EN 519174-12-0 CAPLUS  
 CN Benzenesulfonamide, 5-chloro-2-[2-[(2R,5S)-4-[(4-fluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(methanesulfonyl)- (CA INDEX NAME)

Absolute stereochemistry.



EN 519174-13-3 CAPLUS  
 CN Benzenesulfonamide, 5-chloro-2-[2-[(2R,5S)-4-[(3,4-difluorophenyl)methyl]-2,5-dimethyl-1-piperazinyl]-2-oxoethoxy]-N-(methanesulfonyl)- (CA INDEX NAME)

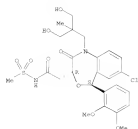






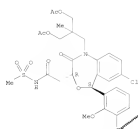


17 ANSWER 13 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



IN 189060-01-9 CAPLUS  
 CH 4,1-benzonaphthene-3-acetamide, 1-[3-(acetyloxy)-2-[(acetyloxy)methyl]-2-methylpropyl]-7-chloro-5-[1,3-dimethoxyphenyl]-1,2,3,5-tetrahydro-N-(methylsulfonyl)-2-oxo-, (7R,5S)- (CA INDEX NAME)

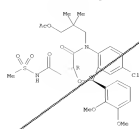
Absolute stereochemistry.



IN 189060-01-9 CAPLUS  
 CH 4,1-benzonaphthene-3-acetamide, 1-[3-(acetyloxy)-2,2-dimethylpropyl]-7-chloro-5-[1,3-dimethoxyphenyl]-1,2,3,5-tetrahydro-N-(methylsulfonyl)-2-oxo-, (7R,5S)- (CA INDEX NAME)

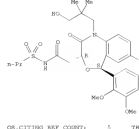
17 ANSWER 13 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

Absolute stereochemistry.



IN 189060-01-9 CAPLUS  
 CH 4,1-benzonaphthene-3-acetamide, 7-chloro-5-[2,3-dimethoxyphenyl]-1,2,3,5-tetrahydro-1-(3-hydroxy-1,2-dimethylpropyl)-2-oxo-N-(propionylsulfonyl)-, (7R,5S)- (CA INDEX NAME)

Absolute stereochemistry. Notation (-).



CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD

REFERENCE COUNT: 38 (7 CITINGS) THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

17 ANSWER 14 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

ACCESSION NUMBER: JP002229143  
 DOCUMENT NUMBER: 17517047  
 TITLE: Silver halide photographic material containing more than two kinds of sensitizing dyes  
 INVENTOR(S): Nakamura, Atsuo; Morimura, Kinjissu; Hiohki, Takamori  
 PATENT ASSIGNOR(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 36 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 200229143	A	20020814	JP 2001-21719	20010130
US 20020169393	A1	20021114	US 2002-58285	20020130
US 6758186	B2	20040706	JP 2001-21719	A 20010130

FIGURE 1 APPL. 2001. 21719. 17517047

ABSTRACT HISTORY FOR US PATENT AVAILABLE IN LONG DISPLAY FORMAT  
 OTHER SOURCE(S): MEDLINE 137:17547  
 GI



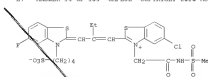
Z

A2 The invention relates to a photop. material comprised of at least one Ag halide photosensitive emulsion layer on a support, wherein the Ag halide emulsion contains at least two kinds of sensitizing dyes represented by I (R = G, B, R, N, Y, K, N' = alkyl, aryl, heterocyclic; O = group for forming methide dye; M = counter ions; n ≥ 0). The Ag halide emulsion comprises 250 x Ag halide tabular grains with an aspect ratio of 2. The photop. material shows high sensitivity, excellent granularity, and reduced residual color upon fast processing.

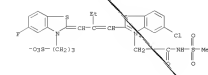
IT 231225-71-1 34181-2-1  
 RI DEV (device component use); MOD (modifier or additive use); USES (uses)  
 (sensitizer; Ag halide photop. material containing more than two kinds of sensitizing dyes to improve photos. properties)

IN 231225-71-7 CAPLUS  
 CH Benzoethiazolium, 5-chloro-2-[3-[(4-fluorobutyl)-2(3H)-benzothiazolylidene]methyl]-2-benzyl-1-yl]-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

17 ANSWER 14 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

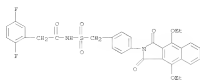


IN 364367-01-9 CAPLUS  
 CH Benzoethiazolium, 5-chloro-2-[3-[(4-fluorobutyl)-2(3H)-benzothiazolylidene]methyl]-2-benzyl-1-yl]-3-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

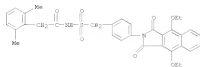




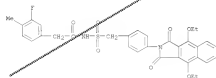
17 ANSWER 15 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)



3N 439245-93-9 CAPLUS  
 CN Benzoxazoneamide, N-[[[4-(4,3-dihydroxy-1,3-dihydro-1,3-dioxo-2H-benz[f]isoxazol-2-yl)phenyl]methyl]sulfonyl]-2,4-dimethyl- (CA INDEX NAME)

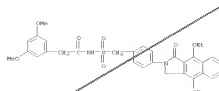


3N 439245-95-1 CAPLUS  
 CN Benzoxazoneamide, N-[[[4-(4,3-dihydroxy-1,3-dihydro-1,3-dioxo-2H-benz[f]isoxazol-2-yl)phenyl]methyl]sulfonyl]-3-fluoro-4-methyl- (CA INDEX NAME)

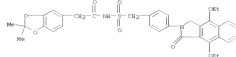


3N 439246-03-4 CAPLUS  
 CN Benzoxazoneamide, N-[[[4-(4,3-dihydroxy-1,3-dihydro-1,3-dioxo-2H-benz[f]isoxazol-2-yl)phenyl]methyl]sulfonyl]-3,5-dimethoxy- (CA INDEX NAME)

17 ANSWER 15 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)



3N 439246-05-6 CAPLUS  
 CN 2,3-Benzodioxole-5-carboxamide, N-[[[4-(4,3-dihydroxy-1,3-dihydro-1,3-dioxo-2H-benz[f]isoxazol-2-yl)phenyl]methyl]sulfonyl]-2,3-dimethyl- (CA INDEX NAME)



ON CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD

REFERENCE COUNT: 5 (5 CITINGS)  
 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

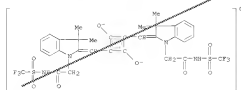
17 ANSWER 16 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM

ACCESSION NUMBER: 2002144020 CAPLUS  
 DOCUMENT NUMBER: 1752367  
 TITLE: Metal complex dye for a dye sensitized solar cell  
 INVENTOR(S): Matsubara, Tetsuya  
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: Eur. Pat. Appl., 33 pp.  
 CODE(S): EPXKIN  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1213776	A2	20020512	EP 2001-129122	20021107
EP 1213776	A3	20040317		
	A1, A2, B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, B11, B12, B13, B14, B15, B16, B17, B18, B19, B20, B21, B22, B23, B24, B25, B26, B27, B28, B29, B30, B31, B32, B33, B34, B35, B36, B37, B38, B39, B40, B41, B42, B43, B44, B45, B46, B47, B48, B49, B50, B51, B52, B53, B54, B55, B56, B57, B58, B59, B60, B61, B62, B63, B64, B65, B66, B67, B68, B69, B70, B71, B72, B73, B74, B75, B76, B77, B78, B79, B80, B81, B82, B83, B84, B85, B86, B87, B88, B89, B90, B91, B92, B93, B94, B95, B96, B97, B98, B99, B100			
JP 2002176186	A	20020502	JP 2000-375146	20001208
JP 4162316	B2	20081008	JP 2000-375146	A 20001208

FIGURE 1 APPL. INVENTOR: A  
 A photosens. conversion device comprises a semiconductor film particle sensitized by a dye having a proton dissociative imide group, and a photosens. cell comprising the photosens. conversion device is disclosed. A metal complex dye useful for the photosens. conversion device is also provided.

IT 424329-04-7  
 N. 200 (Device component use); USES (Use)  
 (Metal complex dye for dye sensitized solar cell)  
 3N 424329-04-7 CAPLUS  
 CN Cyclobutenedimethyl, 1,3-bis-[[[4-(4,3-dihydroxy-1,3-dihydro-1,3-dioxo-2H-benz[f]isoxazol-2-yl)phenyl]methyl]sulfonyl]-2,4-dihydroxy, (Wilkinson salt) (P2) (CA INDEX NAME)



ON CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD

REFERENCE COUNT: 3 (6 CITINGS)  
 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT



17 ANSWER 18 OF 109 CAPLOS COPYRIGHT 2010 ACS on STN (Continued)

Also, a tablet containing 150, 5-methyl-50, more starch 33.9, croscarmellose sodium 42, hydroxypropyl cellulose 5.5, and magnesium stearate 2.6 mg was prepd.

17 189059-84-5 189059-85-6 189060-07-9  
189060-01-5 189059-85-9

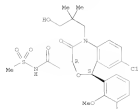
RI: T9F (Therapeutic use); RIG: Biological study; UDEK (Name)  
(Inhib. of lipoprotein-cholesterol level elevating agents containing

acetylene synthase inhibitor)

17 189059-84-5 CAPLOS

CH 4,1-Benzoxazepine-3-acetamide, 7-chloro-5-[2,3-dimethoxyphenyl]-1,2,7,5-tetrahydro-1-[1-hydroxy-2-(hydroxypropyl)-2-methylsulfonyl]-2-oxo-, (3R,5S)- (CA INDEX NAME)

Absolute stereochemistry.



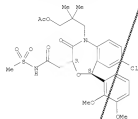
17 189059-85-6 CAPLOS

CH 4,1-Benzoxazepine-3-acetamide, 7-chloro-5-[2,3-dimethoxyphenyl]-1,2,7,5-tetrahydro-1-[1-hydroxy-2-(hydroxypropyl)-2-methylsulfonyl]-8-methylsulfonyl]-2-oxo-, (3R,5S)- (CA INDEX NAME)

Absolute stereochemistry.

17 ANSWER 18 OF 109 CAPLOS COPYRIGHT 2010 ACS on STN (Continued)

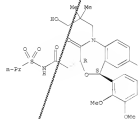
Absolute stereochemistry.



17 189059-85-9 CAPLOS

CH 4,1-Benzoxazepine-3-acetamide, 7-chloro-5-[2,3-dimethoxyphenyl]-1,2,7,5-tetrahydro-1-[1-hydroxy-2,2-dimethylpropyl]-2-oxo-N-(propylsulfonyl)-, (3R,5S)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

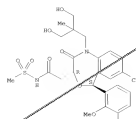


US CITING REF COUNT: 5 THERE ARE 5 CAPLOS RECORDS THAT CITE THIS RECORD

REFERENCE COUNT: 11 (11 CITINGS)  
THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

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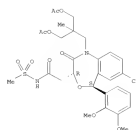
17 ANSWER 18 OF 109 CAPLOS COPYRIGHT 2010 ACS on STN (Continued)



17 189060-07-9 CAPLOS

CH 4,1-Benzoxazepine-3-acetamide, 1-[3-(acetyloxy)-2-[(acetyloxy)methyl]-2-methylpropyl]-7-chloro-5-[2,3-dimethoxyphenyl]-1,2,7,5-tetrahydro-N-(methylsulfonyl)-2-oxo-, (3R,5S)- (CA INDEX NAME)

Absolute stereochemistry.



17 189060-08-5 CAPLOS

CH 4,1-Benzoxazepine-3-acetamide, 1-[3-(acetyloxy)-2,2-dimethylpropyl]-7-chloro-5-[2,3-dimethoxyphenyl]-1,2,7,5-tetrahydro-N-(methylsulfonyl)-2-oxo-, (3R,5S)- (CA INDEX NAME)

17 ANSWER 18 OF 109 CAPLOS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2001101494 CAPLOS

DOCUMENT NUMBER: 136140711

TITLE: Bridged piperazine derivatives, specifically

3,8-diazaabicyclo[3.2.1]octane,

8-azabicyclo[3.2.1]octane,

5,8-diazaabicyclo[3.2.2]octane, and

3,9-diazaabicyclo[3.2.1]nonane derivatives, useful as

inhibitors of chemokines binding to CCR2 receptors,

for treating inflammation and other immune disorders.

INVENTOR(S): Blumberg, Laura Cook Brown, Matthew Frank, Claude,

Patent Assignee(s): Pfizer Products Inc., USA

DOCNO: P1402

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2002022901 A2 20020423 WO 2001-12344 20011004

WO 2002022902 A3 20020725

W: AR, AG, AL, AM, AT, AU, BA, BB, BG, BR, BY, CA, CH, CN, CO, CU, CY, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GR, HU, IL, IN, JP, KR, KZ, LG, LU, LV, LY, MA, MD, ME, MG, MK, MN, MU, NL, NO, NZ, PA, PE, PG, PH, PL, PT, RO, RU, SD, SE, SI, SK, SL, TH, TR, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM

Re: AR, AG, AL, AM, AT, AU, BA, BB, BG, BR, BY, CA, CH, CN, CO, CU, CY, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GR, HU, IL, IN, JP, KR, KZ, LG, LU, LV, LY, MA, MD, ME, MG, MK, MN, MU, NL, NO, NZ, PA, PE, PG, PH, PL, PT, RO, RU, SD, SE, SI, SK, SL, TH, TR, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM

CA 2423789 A1 20020425 CA 2001-2423789 20011004

NO 2001092160 A 20020429 NO 2001-92160 20011004

EP 1326667 A2 20030716 EP 2001-972389 20011004

R: AT, AR, AU, BA, BB, BG, BR, BY, CA, CH, CN, CO, CU, CY, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GR, HU, IL, IN, JP, KR, KZ, LG, LU, LV, LY, MA, MD, ME, MG, MK, MN, MU, NL, NO, NZ, PA, PE, PG, PH, PL, PT, RO, RU, SD, SE, SI, SK, SL, TH, TR, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM

KR 200303389 A 20031015 KR 2003-189 20011004

HK 2001014697 A 20031118 HK 2001-14697 20011004

WO 2003021442 A2 20031229 WO 2003-1442 20011004

JP 2003021443 A3 20030328 JP 2003-536283 20011004

JP 2004052158 7 20040415 JP 2003-536283 20011004

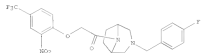
NE 524742 A 20041224 NE 2001-524742 20011004

WO 2005011941 A1 20050829 US 2001-972177 20011005

IN 20030600309 A 20050211 IN 2003-0600309 20050317

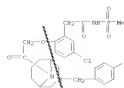
ZA 2005002157 A 20040422 ZA 2003-2157 20050318

L7 ANSWER 19 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)  
 RG 107555 A 20040230 RG 2003-107555 20030320  
 <-- NO 2003061572 A 20030610 NO 2003-1572 20030408  
 <-- MS 200303475 A 20030724 MS 2003-3475 20030416  
 <-- PRIORITY APPL. INFO.: US 2000-241904P F 20001019  
 <-- WO 2001-183444 M 20011004  
 <--  
 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN L605 DISPLAY FORMAT  
 OTHER SOURCE(S): MACT 336140711  
 GI



AB Compds. I and their pharmaceutically acceptable salts, useful for treatment of inflammation and other immune disorders, are disclosed [wherein n = 1-3; m = 1-3; p = 0-1; R = (CH2)0-4 (independently); A, B, and C cannot all be null; if A and/or B is not null, then B must be null; M = CH or N; X = CO, C(S), or CH2; Y = CH2; Z = O, (unsubstituted SE or (unsubstituted CH2)2 = certain (unsubstituted (heteroaryl or (hetero)alkyl); R1 = (independently) H, CH, SO2R, halo, alkyl, SR, CF3, wide variety of other substituents. The compds. are useful for treatment of a wide variety of diseases and disorders, which are cited specifically in claims. Approx. 100 specific examples of I are given, many with synthetic details. For example, 3-(4-(fluorobenzyl)-3,6-diazabicyclo[7.2.1]octan-2-one (preparation given) underwent a sequence of: (1) reduction of the amide carbonyl using LiAlH4 (94%); (2) 8-N-acylation with chloroacetyl chloride (98%); and (3) elimination with 2-nitro-6-trifluoromethylphenol (58%), to give title compound II. In a bioassay for the ability to inhibit chemotaxis of various cells (THP-1 cells, primary human monocytes, or primary lymphocytes) in vitro, all example compds. had EC50 values of less than 10 μM.

L7 ANSWER 19 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)  
 IT 41727-33-4P, N-[15-Chloro-2-[2-[15-(4-fluorobenzyl)-3,9-diazabicyclo[7.2.1]non-9-yl]-2-oxoethyl]phenyl]amino]methanesulfonamide  
 RU: MC (Pharmacological activity); SRU (Synthesis preparation); ZDI (Therapeutic use); BIOG (Biological study); PREP (Preparation); USES (Uses)  
 (drug candidate; preparation of bridged piperazine derivs. as inhibitors of chemokine binding to CCR3 receptors)  
 RU 41727-33-4 CAPLUS  
 CN Benzeneacetamide, 5-chloro-2-[2-[15-(4-fluorophenyl)methyl]-3,9-diazabicyclo[7.2.1]non-9-yl]-2-oxoethyl-8-(methanesulfonyl)- HCA INDEX N0005



ON CITING REF. COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)  
 REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE SE FORMAT

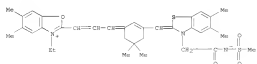
L7 ANSWER 20 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)  
 ACCESSION NUMBER: 20011999 CAPLUS  
 DOCUMENT NUMBER: 136158761  
 TITLE: Heat developable photographic films containing specific sensitizing dye  
 INVENTOR(S): Shiki, Takao; Kato, Takashi; Ozeki, Tomoyuki; Senaki, Naoyuki  
 PATENT ASSIGNER(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 52 pp.  
 COSENT: JPOKAP  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 200240291	A	20020306	JP 2000-23957	20000721

<-- PRIORITY APPL. INFO.:  
 <-- JP 2000-23957 JP 2000-23957 20000721

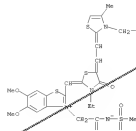
OTHER SOURCE(S): MACT 136158761  
 AB The invention relates to a heat-developable film containing a light-sensitive silver halides, heat-insensitive organic silver salts, a reducing agent, and a binder on a support, wherein the film also contains sensitizing dye (aryl-13li; Mnl (aryl = dye residue; M = counter ion; nl = charge-neutralizing charge number; g el ligand; R = group containing -CORO-, -SO2-RO-, -CORO-, or -SO2RO2-). The film providing the good image d. under various temperature and humidity.

IT 39462-11-47 39462-12-10  
 RI: SRU (Synthesis preparation); TDM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (sensitizing dye in heat-developable photog. films)  
 RU 39462-30-3 CAPLUS  
 CN Benzothiazolone, 2-[15-(15,6-dimethyl-3-oxo-1-methylsulfonyl)amino]-2-oxoethyl-13(15H-benzothiazolylidene)amino-1,5,6-dimethyl-2-cyclohexenylidene-1-propen-2-yl]-2-ethyl-1,3-dimethyl- inner salt [CA INDEX N0005]



RU 39462-30-3 CAPLUS  
 CN Benzothiazolone,  
 2-[[15-methyl-5-[2-(4-methyl-3-[2-(methanesulfonyl)amino]-2-oxoethyl-13(15H-benzothiazolylidene)amino]-1,5,6-dimethyl-2-cyclohexenylidene]-1-propen-2-yl]-2-ethyl-1,3-dimethyl-3-[2-(methanesulfonyl)amino]-2-oxoethyl]- inner salt [CA INDEX N0005]

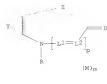
L7 ANSWER 20 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)



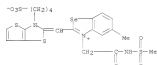
17 ANSWER 21 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM  
 ACCESSION NUMBER: 2002161857 CAPLUS  
 DOCUMENT NUMBER: 136143450  
 TITLE: Photographic film containing specific methine dye  
 INVENTOR(S): Nakamura, Akio; Ito, Takao; Oishi, Katsuhisa;  
 Matsui, Naoyuki  
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 129 pp.  
 COCINT: J0004F  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002001709	A	20020123	JP 2001-138201	20010407
US 20020059226	A1	20020516	US 2001-933709	20010807
US 7291449	NO	20011106		
EP 1253395	A1	20021023	EP 2001-124350	20011023
31 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LT, LV, NL, SE, MC, PT, TR, SI, LT, LV, FI, NO, RO, CY, AU, TR		JP 2000-124612	A	20000425
PROLOGIT AFFAIR INFO..		JP 2000-132357	A	20000501
		JP 1999-69424	A	19990730
		JP 2000-4868	A	20000113
		US 2000-536679	A2	20000328
		JP 2001-138201	A	20010407

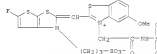
ABSTRACT HISTORY FOR US PATENT AVAILABLE IN LONG DISPLAY FORMAT  
 OTHER SOURCE(S): MARPAT 176142540  
 CL



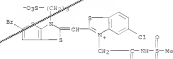
17 ANSWER 21 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)



39I 391879-84-8 CAPLUS  
 CN Benzothiazolium, 2-[[5-(4-fluoro-2-[[3-sulfopropyl]thieno[3,2-d]thiazol-2(1H)-ylidene]methyl)-5-methoxy-3-[[2-[[methylsulfonyl]amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)



39J 391879-85-3 CAPLUS  
 CN Benzothiazolium, 2-[[5-(4-bromo-2-[[3-sulfopropyl]thieno[3,2-d]thiazol-2(1H)-ylidene]methyl)-3-methoxy-3-[[2-[[methylsulfonyl]amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)



39K 391879-89-3 CAPLUS  
 CN Benzothiazolium, 2-[[5-(4-fluoro-2-[[3-sulfopropyl]thieno[3,2-d]thiazol-2(1H)-ylidene]methyl)-3-buten-1-yl]-5,6-dimethyl-2-[[2-[[methylsulfonyl]amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

17 ANSWER 21 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)

AB The invention relates to photog. films containing methine dye I (V = 5-6 membered unsat. heterocyclic ring residue; E = 5-6 membered unsat. heterocyclic ring residue, connecting group; R = alkyl, aryl, heterocyclic; D = dye functional group; L1-2 = methine; p = 0, 1; M = counter ion; n = number to neutralize charge in compound). The photog. film

provides the high sensitivity and little residual color after the process without detracting the pressure durability.

IT 391879-39-39  
 RU: ECT (Resistant); STM (Synthetic preparation); PEP (Preparation); ECT (Resistant or resistant)

RU: Photog. film containing specific methine dye

39I 391879-39-3 CAPLUS  
 CN Thiazole[3,2-d]thiazolium, 5-bromo-2-methyl-2-[[2-[[methylsulfonyl]amino]-2-oxoethyl]-, bromide (1:1) (CA INDEX NAME)



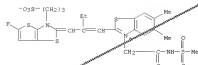
IT 391879-61-5P 391879-64-5P 391879-65-5P  
 RU: STM (Synthetic preparation); STM (Technical or engineered material use); PEP (Preparation); USES (Uses)

RU: Photog. film containing specific methine dye

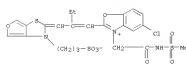
39I 391879-65-5 CAPLUS

CN Benzothiazolium, 2-methyl-2-[[2-[[methylsulfonyl]amino]-2-oxoethyl]-2-[[3-(4-sulfopropyl]thieno[3,2-d]thiazol-2(1H)-ylidene]methyl]-, inner salt (SC1) (CA INDEX NAME)

17 ANSWER 21 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)



39I 391879-65-3 CAPLUS  
 CN Benzothiazolium, 2-methyl-2-[[2-[[methylsulfonyl]amino]-2-oxoethyl]-2-[[3-(4-sulfopropyl]thieno[3,2-d]thiazol-2(1H)-ylidene]methyl]-1-buten-1-yl]-, inner salt (CA INDEX NAME)

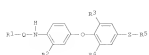




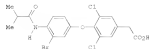




L7 ANSWER 23 OF 109 CAPLES COPYRIGHT 2010 ACS ON STM (Continued)



I



II

AS The invention relates to compounds, I or pharmaceutically acceptable salts thereof [wherein: R1 = (un)substituted aryl, heteroaryl, alkyl(en)yl, cycloalkyl; R2 = R, halo, NO2, CN, aryl, heteroaryl, alkyl(en)yl, cycloalkyl; R3 can be linked to R2, thus forming an (un)substituted alk(en)-containing C3-8 heterocyclic ring; Q = CO, SO, SO2, NHC(=O), or biocrosteric equivalent; or CH2R3; R4 = (un)substituted alk(en)yl, cycloalkyl, or biocrosteric equivalent; R5 = (CR2)2, CH2CR2, or NH(CR2)2; n = 0, 1, 2, or 3; m = 1 or 2; R6 = CO2R, PO(CR2), PO(CR2)NR2, DO2CR, CONR2, NHC(=O)R, NHC(=O)CO2R, CON(CR2), or CH2R3; R7 and R8 not explicitly defined] where the amine

portion is derived from an L- or D-amino acid or a mixture; or any other possible biocrosteric equivalent of all the groups above; including all stereoisomers, and prodrug esters]. Also disclosed are methods of preparing I, and methods for using them, such as in the regulation of metabolism I use thyroid receptor ligands, and are preferably selective for the thyroid hormone receptor  $\beta$ . Over 80 examples are given. For instance, 3-[4-(4-bromo-4-[3-bromo-4-(isobutyrylamidophenoxy)phenyl]phenyl)amino]benzoic acid (III) was prepared in 9 steps as follows: (1) bromination of 2,4-dibromobenzol in the (4) coupling of the bromide with HC-triphenylsilane (53%), (4) desilylation and oxidation to an acid, (5) conversion to the Me ester, (6) hydrogenation of the nitro group, (7) ring bromination adjacent to amino (57%), (8) amidation of the amino group with isobutyryl chloride (40%), and (9) alkaline

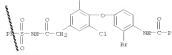
L7 ANSWER 23 OF 109 CAPLES COPYRIGHT 2010 ACS ON STM (Continued)  
hydrolysis of the ester (82%). Compd. I of the examples bound to thyroid

receptor  $\beta$  with IC50 values of 0.2 nM to 10,000 nM.

IT 301180-96-97, N-[1,3,5-trichloro-4-(3-bromo-4-(isobutyrylamidophenoxy)phenyl)amino]benzenesulfonamide  
R1: PAC (Pharmacological activity); STM (Synthetic preparation); THO (Therapeutic use); NIG (Biological study); PREP (Preparation); USES (Uses)

known candidate preparation of dichloro(bromonitrophenyl)phenylamino acids and analogs as thyroid hormone receptor ligands)

RI 301180-96-9 CAPLES  
CI Benzenesulfonamide, 4-[3-bromo-4-[1-(methyl-3-oxopropyl)amino]phenyl]-3,5-dichloro-N-phenylmethyl-1-CA INDEX NMRB



ON CITING REF COUNT: 11 THERE ARE 11 CAPLES RECORDS THAT CITE THIS RECORD (14 CITINGREF)  
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. SEE CITATIONS AVAILABLE IN THE IE  
FORMAT

L7 ANSWER 24 OF 109 CAPLES COPYRIGHT 2010 ACS ON STM

ACCESSION NUMBER: 2001102442 CAPLES

DOCUMENT NUMBER: 11515042

TITLE: Silver halide photographic emulsions with high sensitivity and their photographic materials for fast development

INVENTOR(S): Takamura, Akio; Shiki, Takamori

PATENT ASSIGNOR(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 55 pp.

COINVENTOR: JUDAP

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 2001102023 A 20011121 JP 2000-132280 20000501

CH 3122965 A 20011121 CH 2001-115707 20010429

CH 3122968 A 20011121 CH 2001-115707 20010429

US 2002012891 A1 20020331 US 2001-843535 20010501

US 676205 B2 20040713 JP 2000-132280 A 20000501

PRIORITY APPL. INFO.: JP 2000-132280 A 20000501

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LENS DISPLAY FORMAT

OTHER SOURCE(S): MARIAT 135:236142

AS The photog. emulsions preventing fog in fast development, contain

22 color sensitizing dyes (ACQ) [by = dye part (cyanine dye,

etc.); A = linking group; Q = dissociable group, at least one of them is

not 201% N = counter ions; n = 0, 1; q a; m a; d for

neutralizing intramolecular charge]. The emulsions may be chemical

sensitized

by 86 compounds, and may contain tabular silver halide grains.

IT 364187-01-1

R1: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)

RI 364187-01-1 CAPLES

CI Benzenesulfonamide, 4-[3-bromo-4-[3-(3-fluoro-3-[3-(methyl-3-oxopropyl)-2-(2H)-

benzothiazol-5-ylidene)ethyl]-3-bromo-4-[3-(methyl-3-oxopropyl)amino]-2-

oxoethyl]-, inner salt (CA INDEX NMRB)

IT 364187-01-1 CAPLES

CI Benzenesulfonamide, 4-[3-bromo-4-[3-(3-fluoro-3-[3-(methyl-3-oxopropyl)-2-(2H)-

benzothiazol-5-ylidene)ethyl]-3-bromo-4-[3-(methyl-3-oxopropyl)amino]-2-

oxoethyl]-, inner salt (CA INDEX NMRB)

IT 364187-01-1 CAPLES

CI Benzenesulfonamide, 4-[3-bromo-4-[3-(3-fluoro-3-[3-(methyl-3-oxopropyl)-2-(2H)-

benzothiazol-5-ylidene)ethyl]-3-bromo-4-[3-(methyl-3-oxopropyl)amino]-2-

oxoethyl]-, inner salt (CA INDEX NMRB)

IT 364187-01-1 CAPLES

CI Benzenesulfonamide, 4-[3-bromo-4-[3-(3-fluoro-3-[3-(methyl-3-oxopropyl)-2-(2H)-

benzothiazol-5-ylidene)ethyl]-3-bromo-4-[3-(methyl-3-oxopropyl)amino]-2-

oxoethyl]-, inner salt (CA INDEX NMRB)

IT 364187-01-1 CAPLES

CI Benzenesulfonamide, 4-[3-bromo-4-[3-(3-fluoro-3-[3-(methyl-3-oxopropyl)-2-(2H)-

benzothiazol-5-ylidene)ethyl]-3-bromo-4-[3-(methyl-3-oxopropyl)amino]-2-

oxoethyl]-, inner salt (CA INDEX NMRB)

IT 364187-01-1 CAPLES

CI Benzenesulfonamide, 4-[3-bromo-4-[3-(3-fluoro-3-[3-(methyl-3-oxopropyl)-2-(2H)-

benzothiazol-5-ylidene)ethyl]-3-bromo-4-[3-(methyl-3-oxopropyl)amino]-2-

oxoethyl]-, inner salt (CA INDEX NMRB)

L7 ANSWER 25 OF 109 CAPLES COPYRIGHT 2010 ACS ON STM

ACCESSION NUMBER: 2001102088 CAPLES

DOCUMENT NUMBER: 135:236112

TITLE: Color photographic emulsion with improved solution

storage stability and color photographic paper with

high sensitivity and image graininess

INVENTOR(S): Choshi, Kazuhiko; Takamura, Takamori; Shiki, Takamori

PATENT ASSIGNOR(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 91 pp.

COINVENTOR: RPKCM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION

PATENT NO. KIND DATE APPLICATION NO. DATE

EP 1139164 A1 20011004 EP 2001-107512 20010206

JP 2001134319 A 20011214 JP 2000-91825 20000329

JP 2001134324 A 20011214 JP 2000-238642 20000807

JP 2001134372 A 20011214 JP 2000-270117 20000906

JP 2001134372 A 20011214 JP 2000-291466 20000926

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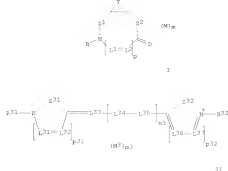
JP 2001134372 A 20011214 JP 2000-291466 20000926

JP 2001134372 A 20011214 JP 2000-291466 20000926

JP 2001134372 A 20011214 JP 2000-291466 20000926

JP 2001134372 A 20011214 JP 2000-291466 20000926

17 ANSWER 23 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



AB The purpose of the present invention is to provide silver halide photo. materials that are excellent in photo. speed as well as image graininess and exhibit low residual color even after rapid processing. A silver halide photo. material comprises a compound represented by formula 1 (Y group necessary to form heterocyclic ring or a benzene ring Z1, Z2 = group of a single bond necessary to form a nitrogen-containing heterocyclic ring; R = alkyl, aryl, heterocyclic ring; R1, R2 = methyl; p = 0-1; M = counter ion; n = 0-1; 0 = group necessary to form a methine dye, and a compound represented by formula 11 (R31, R32 = alkyl, aryl, heterocyclic ring; L31, L32 = methine group; p31, p32 = 0-1; n3 = 0-1; M3 = counter ion; n3 = 0-1; Z31, Z32 = group necessary to form a nitrogen-containing heterocyclic ring).

IT 36436-38-3 36436-51-1  
RI: TBN (technical or engineered material use); USES (Uses)  
[sensitizing dye; color photo. emulsion with improved solution stability and color photo. paper with high sensitivity and image graininess]  
EN 36436-38-3 CAPLUS  
CN Benzothiazolium,  
4,4'-bis[3-(13-[[[methylethyl(furyl)amino]-2-oxoethyl]-2-[2-[[[phenyl]-3-(3-sulfonyl(furyl)-2-oxoethyl]-2-(3H)-yldiene]methyl]-1-buten-1-yl]])- inner salt (CA INDEX NAME)

17 ANSWER 26 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2001120255 CAPLUS  
DOCUMENT NUMBER: 134280607  
TITLE: Preparation of acyl sulfonamide derivatives as selective inhibitors of human chymase  
INVENTOR(S): Aoyama, Yukio; Seki, Masaki; Masuda, Hirokazu; Usui, Yoshihiro; Aoy, Toyi; Shimada, Mayumi; Yamamoto, Michiya  
PATENT ASSIGNOR(S): Mitsubishi Chemical Corp., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp.  
CDDEN: J000AF  
PATENT: Patent  
LANGUAGE: Japanese  
FAMILY AC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001097946	A	20010410	JP 1999-278376	19990930
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OTHER SOURCE(S): M03PAT 134:280607

AB The title compd. represented by formula 1(RC(R32)COR32G1 [R1 = (un)substituted Ph, naphthyl], R1 R2 = halo, alkyl, H2O, aryl, cyano, CO2R, NO2, (un)substituted Ph, R3 provided that R1 and R2 are not simultaneously R3 (n = 0) (un)substituted aryl; R = 0, 0-2; wherein a = 0-2), pharmaco. acceptable salts thereof or hydrates or solvates thereof are prepared These compds. are useful for the prevention and/or

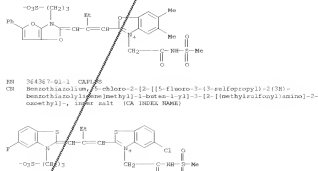
treatment of hypertension, ischemic heart failure, myocardial diseases, arteriosclerosis, coronary arterial diseases, myocardial infarction, vascular stenosis after angioplasty or thrombolytic therapy, peripheral circulation disorders, angitis, diabetic or non-diabetic nephropathy, pulmonary hypertension, bronchial asthma, chronic obstructive lung diseases, chronic bronchitis, pulmonary emphysema, allergic rhinitis, atopic dermatitis, rheumatism, arthritis, or cancer [no data]. Thus, a solution of

diphenylacetic acid in THF was added dropwise to a solution of 1,1'-methylenebis(amide) in THF stirred at 25° for 0.5 h, refluxed for 0.5 h, and cooled to 25°, followed by adding dropwise a solution of 2-naphthalenesulfonamide and 1,8-diazabicyclo[5.4.0]-undec-5-ene in THF, and the resulting mixture was stirred at 25° overnight to give 95% N-(2-naphthalenylsulfonyl)diphenylacetamide, i.e.

N-(2-naphthalenylsulfonyl)diphenylacetamide, i.e.  
N-(2-naphthalenylsulfonyl)diphenylacetamide  
N-(2-naphthalenylsulfonyl)-2-[2,4-dichlorophenyl]acetamide  
RI: SPN (synthetic preparation); THF (therapeutic use); RI03 (biological study); PRP (Preparation); USES (Uses)  
[preparation of acyl sulfonamide derivs. as selective inhibitors of chymase and preventives or therapeutics for chymase-related diseases]

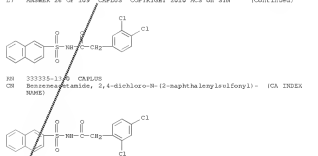
EN 33333-12-9 CAPLUS  
CN Benzeneacetamide, 2,4-dichloro-N-(2-naphthalenylsulfonyl)- (CA INDEX NAME)

17 ANSWER 25 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



OC.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD  
REFERENCE COUNT: 9 (3 CITINGS)  
THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE IE FORMAT

17 ANSWER 26 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



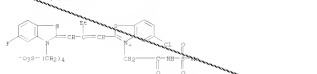


17 ANSWER 29 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)  
 H, alkyl; either V3 or W3 = Cl, Br, I, trifluoromethyl, Me, benzoyl, 1-pyrrolyl; the other V3 or W3 = H, F, Me, methylthio, ethoxy, ethoxycarbonyl, 2-pyrrolyl, 4-pyrrolyl; M1 = counter ion; R1 = Me, required to neutralize intramol. charge; R2 = sulfo-substituted alkyl; R3 = methyl; R4 = 1-3, and R5, R6, R7 = O, H, alkyl; V4 = H, F, Me, methylthio, ethoxy, ethoxycarbonyl, 2-pyrrolyl, 4-pyrrolyl; W4 = Cl, Br, I, trifluoromethyl, Me, benzoyl, 1-pyrrolyl; M2 = counter ion; R2 = Me, required to neutralize intramol. charge; R4 = sulfo-substituted alkyl; R3 = alkyl; R5 = methyl; R6 = 1-3, and also comp. Ag halide grains with 3-100 wt. aspect ratio. It shows high sensitivity and reduced dye stain.

Me, methylthio, ethoxy, ethoxycarbonyl, 2-pyrrolyl, 4-pyrrolyl; W4 = Cl, Br, I, trifluoromethyl, Me, benzoyl, 1-pyrrolyl; M2 = counter ion; R2 = Me, required to neutralize intramol. charge; R4 = sulfo-substituted alkyl; R3 = alkyl; R5 = methyl; R6 = 1-3, and also comp. Ag halide grains with 3-100 wt. aspect ratio. It shows high sensitivity and reduced dye stain.

IT 31233-71-3  
 RI: DEV (device component used) USES (Uses)  
 1) Photocopy, sensitizers giving high sensitivity and reduced residual stain

RI 31233-71-3 CAPLUS  
 CH Benzoethiazolium, 5-chloro-2-[1-[5-fluoro-3-(4-sulfoethyl)-2-thienylthio]acetyl]idene[methyl]-2-acetoxy-1-yl]-3-[2-[(methanesulfonyl)amino]-2-acetoxyethyl], inner salt (CA INDEX NAME)

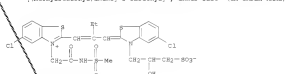


RI 31233-71-3 CAPLUS  
 CH Benzoethiazolium, 5-chloro-2-[1-[5-fluoro-3-(4-sulfoethyl)-2-thienylthio]acetyl]idene[methyl]-2-acetoxy-1-yl]-3-[2-[(methanesulfonyl)amino]-2-acetoxyethyl], inner salt (CA INDEX NAME)

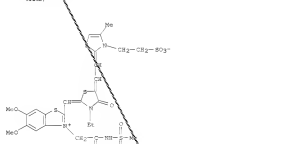


17 ANSWER 30 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)

RI 32494-04-6 CAPLUS  
 CH Benzoethiazolium, 5-chloro-2-[1-[5-chloro-3-(2-hydroxy-3-sulfoethyl)-2-thienylthio]acetyl]idene[methyl]-2-acetoxy-1-yl]-3-[2-[(methanesulfonyl)amino]-2-acetoxyethyl], inner salt (CA INDEX NAME)



RI 32494-04-6 CAPLUS  
 CH Benzoethiazolium, 5-chloro-2-[1-[5-chloro-3-(2-hydroxy-3-sulfoethyl)-2-thienylthio]acetyl]idene[methyl]-2-acetoxy-1-yl]-3-[2-[(methanesulfonyl)amino]-2-acetoxyethyl], inner salt (CA INDEX NAME)



RI 32494-04-6 CAPLUS  
 CH Benzoethiazolium, 5-chloro-2-[1-[5-chloro-3-(2-hydroxy-3-sulfoethyl)-2-thienylthio]acetyl]idene[methyl]-2-acetoxy-1-yl]-3-[2-[(methanesulfonyl)amino]-2-acetoxyethyl], inner salt (CA INDEX NAME)

RI 32494-04-6 CAPLUS  
 CH Benzoethiazolium, 5-chloro-2-[1-[5-chloro-3-(2-hydroxy-3-sulfoethyl)-2-thienylthio]acetyl]idene[methyl]-2-acetoxy-1-yl]-3-[2-[(methanesulfonyl)amino]-2-acetoxyethyl], inner salt (CA INDEX NAME)

RI 32494-04-6 CAPLUS  
 CH Benzoethiazolium, 5-chloro-2-[1-[5-chloro-3-(2-hydroxy-3-sulfoethyl)-2-thienylthio]acetyl]idene[methyl]-2-acetoxy-1-yl]-3-[2-[(methanesulfonyl)amino]-2-acetoxyethyl], inner salt (CA INDEX NAME)

17 ANSWER 29 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM  
 ACCESSION NUMBER: 2001137025 CAPLUS  
 DOCUMENT NUMBER: 134185877  
 TITLE: Silver halide photographic material

INVENTOR(S): Hiro, Takamori  
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: CORDIS 035247  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

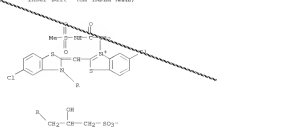
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001042467	A	20000216	JP 1999-213977	19990715
US 6348307	B1	20000219	US 2000-425124	20000715
PRIORITY APPL. INFO.			JP 1999-213977	A 19990715

ASSESSMENT HISTORY FOR US PATENT AVAILABLE IN LENS DISPLAY FORMAT

AB The Ag halide photog. material comprises 21 methine dye represented by (R1)(R2)(R3)(R4) (R5) = methine dyes R1 = charge neutralizing counter ion; R2 = number needed for neutralization; R3, R4 = alkyl derivative group; In 21 Ag halide emulsion layer which contains Ag halide grains 2504 with an aspect ratio of 3-100. The use of above sp. methine dyes in the Ag halide emulsion layer provided high sensitivity and little residual color.

IT 32494-04-6  
 RI: TM (Technical, or engineered material use); USES (Uses)  
 1) Silver halide photog. emulsion layer containing

RI 32494-04-6 CAPLUS  
 CH Benzoethiazolium, 5-chloro-2-[1-[5-chloro-3-(2-hydroxy-3-sulfoethyl)-2-thienylthio]acetyl]idene[methyl]-2-acetoxy-1-yl]-3-[2-[(methanesulfonyl)amino]-2-acetoxyethyl], inner salt (CA INDEX NAME)



17 ANSWER 30 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM

ACCESSION NUMBER: 2001137026 CAPLUS  
 DOCUMENT NUMBER: 134184473  
 TITLE: Aryliminofluoro-substituted polyethine fluorescent dyes and their use as fluorescent coloring materials and/or markers for biomolecules

INVENTOR(S): Drueger, Gerd; Haeffliger, Michael; Simon, Lydia  
 PATENT ASSIGNEE(S): Bayer A.-G., Germany  
 SOURCE: Ger. Offen., 48 pp.  
 CODEN: GMDCEX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19937024	A1	20000216	DE 1993-1937024	19930505
CA 2361068	A1	20000215	CA 2000-2361068	20000724
CA 2361068	C	20000215		
WO 2000012370	A1	20000215	WO 2000-EP-7070	20000724

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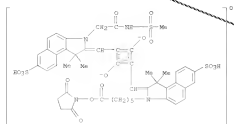
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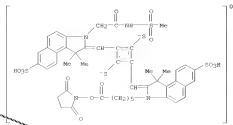
17 ANSWER 30 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)  
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 dihydro-1,1-dimethyl-5-sulfo-2H-indol-2-ylidene]methyl]-2,4-  
 dihydroxy-, bis(inner salt), dipotassium salt (PC1) (CA INDEX NAME)



● K

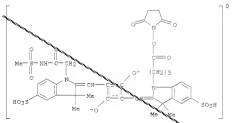
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 dihydro-1,1-dimethyl-5-sulfo-2H-indol-2-ylidene]methyl]-2,4-  
 dihydroxy-, bis(inner salt), dipotassium salt (PC1) (CA INDEX NAME)

17 ANSWER 30 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)



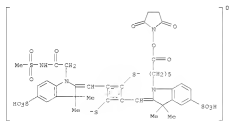
220 325143-25-7 CAPLUS  
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 dimethyl-5-sulfo-2H-indol-2-ylidene]methyl]-2,4-dihydroxy-, bis(inner  
 salt), dipotassium salt (PC1) (CA INDEX NAME)

17 ANSWER 30 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)



● K

220 325143-24-6 CAPLUS  
 CN Cyclobutenesulfonyl, 1-[[1,3-dihydro-3,3-dimethyl-1-[3-  
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 [[1-[6-[[12,5-dioxo-3-pyrrolidinyl]oxy]-6-oxohexyl]-1,3-dihydro-1,1-  
 dimethyl-5-sulfo-2H-indol-2-ylidene]methyl]-2,4-dihydroxy-, bis(inner  
 salt), dipotassium salt (PC1) (CA INDEX NAME)

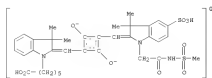


● K

IT 325143-27-9P 325143-28-0P  
 RL 2M (Technical manufacture), 2M (Technical or engineered material  
 use), PEP (Preparation), 2M8 (Use)

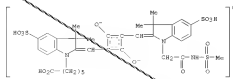
17 ANSWER 30 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)  
 dye, prodn. of acylsulfonyl-substituted polymethine fluorescent  
 markers for biomols.)

220 325143-27-9 CAPLUS  
 CN Cyclobutenesulfonyl, 1-[[1-[5-oxobipentyl]-1,3-dihydro-3,3-dimethyl-2H-  
 indol-2-ylidene]methyl]-3-[[1,3-dihydro-3,3-dimethyl-1-[3-  
 [(methylsulfonyl)amino]-2-oxoethyl]-5-sulfo-2H-indol-2-ylidene]methyl]-2,4-  
 dihydroxy-, bis(inner salt), monopotassium salt (PC1) (CA INDEX NAME)



● K

220 325143-28-0 CAPLUS  
 CN Cyclobutenesulfonyl, 1-[[1-[5-carboxypentyl]-1,3-dihydro-3,3-dimethyl-5-  
 sulfo-2H-indol-2-ylidene]methyl]-3-[[1,3-dihydro-3,3-dimethyl-1-[3-  
 [(methylsulfonyl)amino]-2-oxoethyl]-5-sulfo-2H-indol-2-ylidene]methyl]-2,4-  
 dihydroxy-, bis(inner salt), disodium salt (PC1) (CA INDEX NAME)

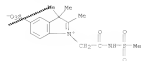


● Na

IT 324745-40-6P 324745-43-9P  
 RL 2M (Technical manufacture), 2CT (Reactant), PEP (Preparation)  
 RACT (Reactant or reagent)  
 (intermediate production of acylsulfonyl-substituted polymethine



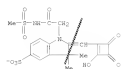
17 ANSWER 31 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)  
 fluorescent dye markers for biomols.)  
 30 324745-42-6 CAPLUS  
 30 36-Indolizin-2-yl-3-trimethyl-1-[2-[(methanesulfonyl)amino]-2-oxoethyl]-5-sulfo-, inner salt (CA INDEX NAME)



30 324745-41-9 CAPLUS  
 30 2-Butanamidino, N,N,3-trimethyl-, 2,7-dihydro-2-[12-hydroxy-7,6-dioxo-1-cyclopenten-1-yl]ethenyl]-3,3-dimethyl-1-[2-[(methanesulfonyl)amino]-2-oxoethyl]-5-m-Indole-5-sulfonate (1:1) (CA INDEX NAME)

CM 3

CM 324745-42-6  
 CMF C18 E17 NU 02



CM 2

CM 324745-76-3  
 CMF C18 E18 N3



OS-CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD

17 ANSWER 31 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)  
 ACCESSION NUMBER: 200110034 CAPLUS  
 DOCUMENT NUMBER: 13478685  
 TITLE: Heat-sensitive imaging element with cover layer for providing a lithographic printing plate  
 INVENTOR(S): Vermeersch, Joost; Van Damme, Marc  
 PATENT ASSIGNEE(S): Agfa-Gevaert N.V., Belg.  
 SOURCE: Eur. Pat. Appl., 9 pp., COBOL EPXXXX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1045049	A1	20010103	EP 2000-203854	20000524
EP 1045049	A1	20041110		
US 61, 81, CM, DE, ES, FR, GB, GR, IT, LI, LV, NL, SE, MC, PT, SI, SZ, LT, LU, FI, NO				
US 6503694	B1	20030107	JP 2000-584490	20000401
JP 200103047	A	20010213	JP 2000-192384	20000627
PRIOLOGY APPL. INFO:			EP 1999-202108	A 19990629
			US 1999-140644	F 19990714

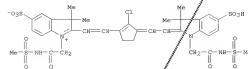
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN L008 DISPLAY FORMAT

A3 The invention relates to heat-sensitive material for preparing lithographic plates. The invention provides a heat-sensitive material for making lithographic printing plates comprising on a lithographic support an image-forming layer comprising a hydrophilic binder a crosslinking agent for a hydrophilic binder and dispersed hydrophobic thermoplastic polymer particles, characterized in that the said image-forming layer is covered with a layer comprising at least one organic compound comprising cationic groups.

IT 251640-76-3  
 RI 227 (Device component use); NUC (Other use, unclassified); TEM (Technical or engineering material use); DES (Descriptive heat-sensitive imaging element with cover layer for providing lithographic printing plate coated with 10-sensitive layer containing)  
 30 251640-76-3 CAPLUS  
 30 36-Indolizin-2-yl-3-trimethyl-1-[2-[(methanesulfonyl)amino]-2-oxoethyl]-5-m-Indole-5-sulfonate (1:1) (CA INDEX NAME)

17 ANSWER 30 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)  
 (2 CITINGS)

17 ANSWER 31 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



OS-CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD  
 CITINGS: 2  
 REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RECORD.  
 FORMAT

L7 ANSWER 32 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)  
 ACCESSION NUMBER: 20001457018 CAPLUS  
 DOCUMENT NUMBER: 13189793  
 TITLE: Preparation of 4-(4-hydroxyphenoxy)phenylacetyl amino  
 acids and related compounds as novel thyroid receptor  
 ligands  
 INVENTOR(S): Bengtsson, Jony Shang, Minsheng Cai, Roger, Voland, J  
 Taylor, Benly, Li, Yi-ling Ma, John, Li, Yey Gang,  
 Nemes, Lillian, Chris Garcia Collazo, Ana Maria,  
 Koshier, Edward  
 PATENT ASSIGNER(S): Elex Bio AB, Sweden, et al.  
 SOURCE: PCT Int. Appl., #P ap.  
 DOCUMENT TYPE: Patent  
 LAYOVSUM: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
MO 2000019077	A2	20000706	MO 1999-180084	19991223
MO 2000019077	A3	20000921		
MO 2000019077	Wt. A2, A3, AM, AT, AU, BE, BR, CA, CH, CN, DE, DK, ES, FI, FR, GB, GR, HU, IL, IN, JP, KR, MA, MD, ME, MG, MK, MN, MU, MY, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SR, TH, TR, TT, UA, US, UZ, VN, YU, ZA, ZM			
CA 2156319	A1	20000706	CA 1999-2156319	19991223
BR 9336551	A	20010106	BR 1999-16051	19991223
EP 1144370	A2	20011017	EP 1999-962486	19991223
RU 20010134	R1, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IT, LI, LU, NL, SE, MG, PT, TR, UA, YU			
RU 2001014666	A2	20020328	RU 2001-4666	19991223
JP 4401048	N2	20010127		
JP 2002537432	7	20021009	JP 2000-190930	19991223
RU 20010134	A2	20010328		
RU 20010134	N2	20010328	RU 2000-18855	19991223
RU 20010134	A	20040227	RU 1999-512422	19991223
CH 1196372	C	20050126	CH 1999-815057	19991223
MO 2001052931	A1	20010823	MO 2001-2931	20010613

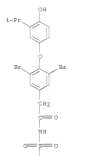
L7 ANSWER 32 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)  
 SA 2001004932 A 20010115 SA 2001-4932 20010615  
 MX 2001004682 A 20010910 MX 2001-4682 20010622  
 IN 2001000754 A 20010311 IN 2001-00754 20010720  
 US 6989402 B1 20040104 US 2001-068889 20010914  
 US 2002028272 A1 20051222 US 2005-38964 20050726  
 US 7268571 B2 20071030 US 1999-28442 A 19991224  
 EP1007377 A21B, INFO. WO 1999-180084 W 19991223  
 US 2001-069000 A3 20010914

ACCESSION HISTORY FOR US PATENT AVAILABLE IN LONG DISPLAY FORMAT  
 OTHER SOURCE(S): MARPAT 13189793  
 C1

AB Title compds. 1 [R1 = halo, trifluoromethyl, alkyl, cycloalkyl; R2, R3 = H, halo, alkyl, at least one of R2 and R3 being other than H; n = 0-4; R4 is an (m)-substituted heteroatom moiety linked to (R2) via a nitrogen or carbon atom; an amine, including those in which the amine is derived from an alpha amino acid of either L- or D-isomer, an acylsulfonyl, or a carboxylic acid amide, with the proviso that when n = 0, then R4 can only be a carboxylic acid amide or an acylsulfonyl amide  
 R5 is H or an aryl or other group capable of bioconversion to generate the free phenol structure) were prepared for use in the treatment of diseases associated with metabolic dysfunction or which are dependent on the expression of a T3 regulated gene (such as obesity, hypercholesterolemia, atherosclerosis, depression, osteoporosis, hypothyroidism, goiter, thyroid cancer, glaucoma, cardiac arrhythmias, and congestive heart failure).  
 Thus, coupling of 3,5-dibromo-4-(4-hydroxy-3-isopropoxyphenyl)phenylacetic acid with D-methionine in water hydrochloride followed by hydrolysis afforded H-3,5-dibromo-4-(4-hydroxy-3-isopropoxyphenyl)phenylacetyl-D-methionine.  
 IT 280777-90-EP 280777-91-EP  
 RU 280777-90-EP (Synthetic preparation); THU (Therapeutic use); BLOL (Biological

L7 ANSWER 32 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)  
 study; PREP (Preparation); DES (Data)  
 Group of (hydroxyphenoxy)phenylacetyl amino acids and related  
 compds. as novel thyroid receptor ligands  
 RU 280777-90-4 CAPLUS  
 CH Benzenesulfonamide, N-[4-amino-3-(3,5-dibromo-4-(4-hydroxy-3-(1-methylethyl)phenoxy)phenyl)]- (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

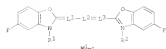


RU 280777-91-3 CAPLUS  
 CH Benzenesulfonamide, N-[4-amino-3-(3,5-dibromo-4-(4-hydroxy-3-(1-methylethyl)phenoxy)phenyl)]- (CA INDEX NAME)

L7 ANSWER 32 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)  
 1-Pr  
 OS-CITING REF COUNT: 30 THERE ARE 30 CAPLUS RECORDS THAT CITE THIS  
 REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS  
 FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE IE

L7 ANSWER 33 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM  
 ACCESSION NUMBER: 2005:401373 CAPLUS  
 DOCUMENT NUMBER: 13751111  
 TITLE: Silver halide color photographic material  
 INVENTOR(S): Motomoto, Kiyoshi; Bioki, Takamori; Yabuki, Yoshihiro  
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 53 pp.  
 COINVENTOR(S): COINVENTOR  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION: 1

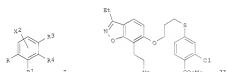
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006162729	A	20060616	JP 1999-124771	19990430
PRIORITY APPL. INFO.: JP 1998-285898 A 19980924				
OTHER SOURCE(S): MARPAT 13751111				
OI				



A2 The title photog. material possesses a hydrophilic colloid layer containing  
 R1 compound 1 (R1, R2 = alkyl, aralkyl, unsatd. hydrocarbon); L1-3 =  
 methylene R3 = monosubstituted benzene ring (A =  
 acidic nucleus; Q = aryl or aromatic heterocycle). The material shows  
 low residual sensitizing dye stain and high sensitivity.  
 IT 278792-89-3  
 R1, R2, R3 (device component use); USES (Uses)  
 (photo, paper containing cyanine dye sensitizer and dye)  
 R2 278792-89-3 CAPLUS  
 CH Benzimidazole, 5-fluoro-2-[2-[15-fluoro-3-[2-[(methylethoxy)amino]-2-oxoethyl]-2-(3-benzimidazolylidene)ethyl]-1-butene-1-yl]-2-[2-[(methylethoxy)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

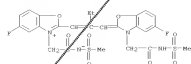
L7 ANSWER 34 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM  
 ACCESSION NUMBER: 2005:199393 CAPLUS  
 DOCUMENT NUMBER: 137507842  
 TITLE: Preparation of [[benzimidazolyl(alkyl)thio- or -oxyl]benzenesulfonates as antidiabetic agents  
 INVENTOR(S): Berger, Gregory D.; Santini, Conrad; Patchett,  
 Arthur;  
 Tolpene, Richard B.; Fitch, Kenneth; Walsh, Thomas F.; Tolman, Richard J.; Rahoe, Sonny F.; Adams,  
 Alan;  
 Van Lager, Berel; Jones, Anthony B.; Graham, Donald W.; Leibovitch, Mark; Miller, David E.; Berger, David F.  
 PATENT ASSIGNEE(S): Merck and Co., Inc., USA  
 SOURCE: S. African, 252 pp.  
 COINVENTOR(S): COINVENTOR  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 7  
 PATENT INFORMATION: 7

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ZA 970824	A	19981030	ZA 1997-824	19970131
PRIORITY APPL. INFO.: US 1996-110809 P 19960202				
OTHER SOURCE(S): MARPAT 137507842				
OI				

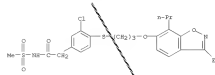


A2 Title compds. [I] R = 822170V1; Q = (saturated) hydrazinyl; R1 = H, (un)substituted alk(en)yl, -alkynyl; R2 = R2CH2R7, R2CH2CH, R2CH2R7R2;  
 R3R4 = atoms to complete an (un)substituted ring containing 2 heteroatom(s) R5  
 = CO2R, alkylcarbamoyl, OHNH, tetrazolyl, etc.; R6,R7 = R or alkyl; Y = O, SO2-, CH2, CO, NH, etc.; Z1 = O or C (arid); R2 = H, halo, alkyl, alkoxy, etc.; R2 = (un)substituted 1,3- or 1,4-phenylene; R2 = CH2R7, O, R2N-2, (alkyl)amino were prepared Thus,  
 2,3-bis(hydroxy-3-propyl)phenol was etherified by R(CH2)R7 and the product bisbenzimidyl by MeO2CCH2CH2 (R2 = 3-chloro-1,4-phenylene) to give, in 4 addnl. steps, title compound 11. Data for Biol. activity of 1 were given:  
 IT 184982-41-IP  
 R1, R2 (Biological activity or effector, except adverse); R2O  
 (Biological)

L7 ANSWER 33 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)



L7 ANSWER 34 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)  
 study, unclassified), SM (synthetic preparation), TM (Therapeutic use),  
 BIO. (Biological study), PREP (Preparation), USES (Uses)  
 (prep. of [[benzimidazolyl(alkyl)thio- or -oxyl]benzenesulfonates as antidiabetic agents])  
 R2 184982-41-1 CAPLUS  
 CH Benzimidazole, 3-chloro-4-[13-(1-ethyl-7-propyl-1,2-benzimidazol-6-yl)oxypropylthio]-N-(methylethoxy)- (CA INDEX NAME)





L7 ANSWER 36 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)

L7 ANSWER 37 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM  
 ACCESSION NUMBER: 1999-76708 CAPLUS  
 DOCUMENT NUMBER: 13211743  
 TITLE: Heat-sensitive imaging element for lithographic plate preparation  
 INVENTOR(S): Van Nume, Marc; Van Aert, Hub; Vermeersch, Joao  
 PATENT ASSIGNEE(S): Agfa-Gevaert N.V., Belg.  
 SOURCE: Eur. Pat. Appl., 15 pp.  
 CODES: EPCOLM Patent  
 DOCUMENT TYPE: English  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 960729	A1	19990120	EP 1999-300046	19990120
EP 960729	B1	20000220		
R4 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, SI, SK, TR, UK, JP, FI, NO				
US 609473	A	20000801	US 1999-280656	19990120
JP 2000052649	A	20000222	JP 1999-137246	19990120
PRIORITY APPL. INFO.			EP 1999-261727	A 19990120
			US 1999-325179	F 19990120

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LONG DISPLAY FORMAT  
 AB A heat-sensitive imaging element for lithog. plate preparation comprises a

support and an image-forming layer comprising a hardened hydrophilic binder, a heat-switchable polymer, and a compound capable of converting light into heat, characterized in that the heat-switchable polymer is a polymer containing arylidene sulfonate units.

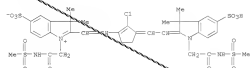
IT R4: TM (Technical or engineered material use); USES (Uses): (heat-sensitive imaging elements for lithog. plate preparation containing arylidene sulfonate group-containing polymers and)

FI 254640-76-3 CAPLUS

CN 38-Indolium, 2-[2-[2-chloro-3-[2-[1,3-dihydro-2,3-dimethyl-1-[2-

[(methylsulfonyl)amino]-2-oxoethyl]-5-sulfo-28-indol-2-ylidene]ethidene]-1-cycloocten-1-ylethyl]-7,2-dimethyl-1-[2-(methylsulfonyl)amino]-2-oxoethyl]-5-sulfo-, inner salt, potassium salt (1:1) (CA INDEX NAME)

L7 ANSWER 37 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)



● K

OS-CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD  
 REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE 36 FORMAT

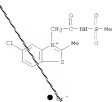
L7 ANSWER 38 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM  
 ACCESSION NUMBER: 1999-68759 CAPLUS  
 DOCUMENT NUMBER: 131430145  
 TITLE: Diterpene derivatives and anti-inflammatory analgesic agents comprising the same  
 INVENTOR(S): Suh, Young Gye; Choi, Young Doon; Lee, Hye Kyung  
 PATENT ASSIGNEE(S): Young Boj Park, Hyoung Sep  
 SOURCE: See Nat. Pat. Co., Ltd., S. Korea  
 CODES: FIKNDZ  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 9937600	A1	19990729	WO 1999-39338	19990120
W1 AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, DE, DK, EE, ES, FI, GB, GR, GM, GU, HK, HU, ID, IL, IN, JP, KE, KG, KP, KR, KZ, LC, LB, LG, LI, LU, LV, MD, MG, MN, MW, MY, NZ, NL, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TR, TM, TN, TT, UA, US, UZ, VE, VN, YU, ZA				
FW: GM, GR, EE, LB, MD, MG, SE, SD, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, MW, PT, SE, SF, SK, CZ, OM, CI, CM, GN, GM, GU, ML, MR, MN, TD, TO				
NO 9921876	A	19990809	NO 1999-21876	19990120
EP 1056710	A1	20001206	EP 1999-001969	19990120
EP 1056710	B1	20011230		
R1 CH, DE, ES, FR, GB, IT, LI				
JP 2003502271	T	20030121	JP 2000-528126	19990120
ES 2211030	T3	20040701	ES 1999-001969	19990120
CN 1171846	C	20041020	CN 1999-802429	19990120
US 6583263	B1	20030715	US 2000-600774	20000915
PRIORITY APPL. INFO.			KR 1998-2441	A 19980126
			WO 1999-39338	W 19990120

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LONG DISPLAY FORMAT  
 OTHER SOURCE(S): MARPAT 131130145  
 GI

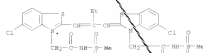


L7 ANSWER 41 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)



IT 175301-54-2  
 24, 25 (see component use) USES (Uses)  
 (silver halide photoreceptor emulsion containing silver derivative and sensitizing dye for high d. and storage stability)

IN 175301-54-2 CAPLUS  
 CN Benzothiazolone, 2-chloro-3-[2-[(5-chloro-3-[2-[(methoxy(phenyl)amino]-2-oxoethyl]-2-(3H)-benzothiazolylidene)methyl]-1-butene-1-yl]-3-[2-[(methoxy(phenyl)amino)-2-oxoethyl]-2-oxoethyl]]- (CA INDEX NAME)



ON-CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD  
 (1 CITINGS)

L7 ANSWER 41 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN  
 ACCESSION NUMBER: 1999-154902 CAPLUS  
 DOCUMENT NUMBER: 128126377  
 ORIGINAL REFERENCE NO.: 128126377, 510204  
 TITLE: Silver halide photoreceptor material using polymethine sensitizing dye  
 INVENTOR(S): Kogawa, Nobuki; Kita, Motomasa; Nakamura, Masaki; Ishii, Tetsuo  
 PATENT ASSIGNOR(S): Konica Co., Japan  
 SOURCE: Jpn. Kok. Pat. Appl., 62 pp.  
 CODEN: JGQJAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACT. NUM. COUNT: 1  
 ENTRY INFORMATION:

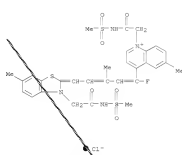
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10062689	A	19990706	JP 1996-217245	19990219
US 5876915	A	19990302	US 1997-889481	19970708
JP 10073900	A	19980317	JP 1997-211407	19970722
JP 3794793	B2	20000712	EP 1996-202108	19960724

PROPERT APPLS. INFO.:  
 AB The title material contains a Ag halide emulsion layer spectrally sensitized with a polymethine dye in which the methine chain is replaced by 21 F and the aliphatic groups substituted on the H atom in the azole rings are linked by 22 methine groups having 21 water-soluble group. The material shows good storage stability, low residual color stain, and improved photoreceptor properties.

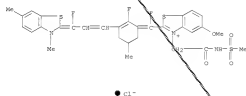
IT 205172-92-5 205172-92-5  
 RU 2721 (Technical or engineering material use) USES (Uses)  
 (silver halide photoreceptor emulsion sensitized with polymethine dye)

IN 205172-92-5 CAPLUS  
 CN Quinolizinium  
 4-[[5-(chloro-3-methyl-5-[6-methyl-3-[2-[(methoxy(phenyl)amino]-2-oxoethyl]-2-(3H)-benzothiazolylidene)-1,3-pentadien-1-yl]-6-methyl-1-[2-[(methoxy(phenyl)amino)-2-oxoethyl]-2-oxoethyl]]-chloride (1:1) (CA INDEX NAME)

L7 ANSWER 41 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)



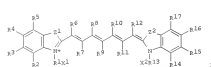
IN 205172-92-2 CAPLUS  
 CN Benzothiazolone, 2-chloro-3-[2-[(5,6-dimethyl-2-(3H)-benzothiazolylidene)-3-fluoro-1-propen-1-yl]-4-fluoro-5-methyl-2-cyclohexen-1-ylidene]fluoromethyl-5-methyl-3-[2-[(methoxy(phenyl)amino)-2-oxoethyl]-2-oxoethyl]]-chloride (1:1) (CA INDEX NAME)



L7 ANSWER 41 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN  
 ACCESSION NUMBER: 1999-147024 CAPLUS  
 DOCUMENT NUMBER: 128164642  
 ORIGINAL REFERENCE NO.: 128164642, 315604  
 TITLE: Photoreceptor material comprising sensitizing dye  
 INVENTOR(S): Denrover, Geert; Boogaertens, Iwan; Struyckers, Hans  
 PATENT ASSIGNOR(S): Agfa-Gevaert N.V., Belg.  
 SOURCE: Eur. Pat. Appl., 56 pp.  
 CODEN: EPKJLM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACT. NUM. COUNT: 1  
 ENTRY INFORMATION:

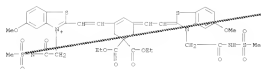
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 821266	A1	19980128	EP 1997-201904	19970621
US 5876915	A	19990302	US 1997-889481	19970708
JP 10073900	A	19980317	JP 1997-211407	19970722
JP 3794793	B2	20000712	EP 1996-202108	19960724

PROPERT APPLS. INFO.:  
 AB The title material comprises a support and a photoacidizable thermally developable element comprising a substantially light-insensitive organic silver salt, a reducing agent thereof in working relationship therewith, a photosensitive silver halide spectrally sensitized with a dye and in catalytic association with the substantially light-insensitive organic silver salt, and a binder. The dye has the general formula I where, R1, R2 = H, O, or Se; R3, R4 = alkylene; R5, R6 = COOR7, HCOOR7, or HOOR7 where R7, R8, R9, and R10 = alkyl, aryl, amino, or substituted amino; R11, R12 = H, Cl, Br, F, I, keto, sulfo, methoxy, ether, sulfonamido, amide, dialkylamino, nitrato, cyano, alkoxy, alkenyl, heterocyclo, aryl, alkoxy, or aryl group which may be substituted; R13 and R14, R15 and R16, R17 and R18, R19 and R20, or R21 and R22 together may constitute the atoms necessary to complete a benzene ring.



AB A photothermo. recording material comprises a support and a photoacidizable thermally developable element comprising a substantially light-insensitive organic silver salt, a reducing agent thereof in working relationship therewith, a photosensitive silver halide spectrally sensitized with a dye and in catalytic association with the substantially light-insensitive organic silver salt, and a binder. The dye has the general formula I where, R1, R2 = H, O, or Se; R3, R4 = alkylene; R5, R6 = COOR7, HCOOR7, or HOOR7 where R7, R8, R9, and R10 = alkyl, aryl, amino, or substituted amino; R11, R12 = H, Cl, Br, F, I, keto, sulfo, methoxy, ether, sulfonamido, amide, dialkylamino, nitrato, cyano, alkoxy, alkenyl, heterocyclo, aryl, alkoxy, or aryl group which may be substituted; R13 and R14, R15 and R16, R17 and R18, R19 and R20, or R21 and R22 together may constitute the atoms necessary to complete a benzene ring.

17 ANSWER 42 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)  
 which may be substituted; R6-12 = H, Cl, Br, F, I, alkyl, alkoxy,  
 arylalkyl, or disubstituted amino, where the substituents may constitute  
 the atoms necessary to complete a 5- or 6-membered heterocyclic ring; R6  
 and R8, R8 and R10, R10 and R12, R7 and R9, or R9 and R11 together may  
 constitute the atoms necessary to complete a 5- or 6-membered carbocyclic  
 or heterocyclic ring which may be substituted; R1 and R6 or R12 and R12  
 may constitute the atoms necessary to complete a 5- or 6-membered  
 heterocyclic ring which may be substituted.  
 IT 202158-6-4  
 R1, TM (technical or engineered material use); USES (Uses)  
 [containing for photorecopy, recording materials]  
 NR 202158-6-4 CAPLUS  
 CN Benzothiazolium, 2-[2-[5,5-bis(4-methoxybenzoyl)-3-[[5-methoxy-3-[2-  
 [(methanesulfonyl)amino]-2-oxoethyl]-2-(2H-benzothiazol-2-ylidene)-  
 1-cyclohexen-3-yl]ethyl]-5-methoxy-3-[2-[(methanesulfonyl)amino]-2-  
 oxoethyl]-, inner salt, compd. with N,N-diethylacetamide (1:1) (PC)  
 ICA  
 INDEX NAME  
 CN 3  
 CRI 22456-85-3  
 CRI C10 842 04 012 54



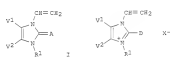
CN 2  
 CRI 111-44-8  
 CRI C8 815 8

EX

EX-3-EX

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE  
 FORMAT

17 ANSWER 43 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 199772398 CAPLUS  
 DOCUMENT NUMBER: 12848426  
 ORIGINAL REFERENCE NO.: 12848426  
 TITLE: Imide derivative and silver halide photographic  
 material spectrally sensitized with the compound  
 Kato, Masayasu; Kageura, Naomichi  
 INVENTOR(S): Kameoka, Ko, Japan  
 PATENT ASSIGNER(S): Patent  
 SOURCE: Jpn. Kokai Tokkyo Koho, 65 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 JP 5993120 A 19971211 JP 1996-106936 19960426  
 PRIORITY APPL. INFO.  
 JP 579045 B2 20040628 JP 1996-106936 19960426  
 CRI  
 CRI

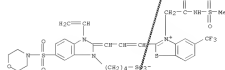


AB The imide derivative is shown as: (R1 = alpha,beta; A = group to form  
 heterocyclic ring via conjugated chain; V1, V2 = H, substituent; V1 and V2  
 may form condensed ring) or II (R1, V1, V2 = same as above; A =  
 group; II = number to neutralize internal charge). A Ag halide photo.  
 material is spectrally sensitized with I and/or II. Popping as  
 claimed.  
 IT 202189-29-9 200189-22-6 200189-43-1  
 202189-62-2  
 R1, TM (technical or engineered material use); USES (Uses)  
 [imide derivative and Ag halide photo. material spectrally  
 sensitized with the compound]  
 NR 202189-29-9 CAPLUS  
 CN Benzothiazolium, 2-[2-[3-[[5-chloro-6-cyano-3-ethenyl-3,3-dihydro-1,2-  
 [(methanesulfonyl)amino]-2-oxoethyl]-2H-benzimidazol-2-ylidene]-1,3-  
 pentadien-1-yl]-5-phenyl-3-(3-ethoxypropyl)-, inner salt (CA  
 INDEX NAME)

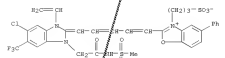
NR 202189-29-9 CAPLUS  
 CN Benzothiazolium, 2-[2-[3-[[5-chloro-6-cyano-3-ethenyl-3,3-dihydro-1,2-  
 [(methanesulfonyl)amino]-2-oxoethyl]-2H-benzimidazol-2-ylidene]-1-propen-1-yl]-3-[2-  
 [(methanesulfonyl)amino]-2-oxoethyl]-5-trifluoromethyl]-, inner salt (CA  
 INDEX NAME)

17 ANSWER 42 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

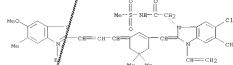
17 ANSWER 43 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



NR 200189-22-6 CAPLUS  
 CN Benzothiazolium, 2-[5-[5-chloro-3-ethenyl-3,3-dihydro-1,2-  
 [(methanesulfonyl)amino]-2-oxoethyl]-6-(trifluoromethyl)-2H-benzimidazol-2-  
 ylidene]-1,3-pentadien-1-yl]-5-phenyl-3-(3-ethoxypropyl)-, inner salt (CA  
 INDEX NAME)



NR 200189-43-1 CAPLUS  
 CN Benzothiazolium, 2-[2-[3-[[5-chloro-6-cyano-3-ethenyl-3,3-dihydro-1,2-  
 [(methanesulfonyl)amino]-2-oxoethyl]-2H-benzimidazol-2-ylidene)methyl]-5,5-  
 dimethyl-1-cyclohexen-3-ylidene]-1-propen-1-yl]-3-ethyl-4-methoxy-5-methyl-  
 iodide (1:1) (CA INDEX NAME)

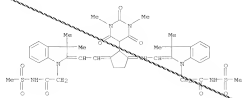




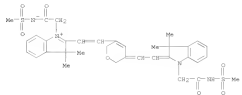




1,7 ANSWER 46 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

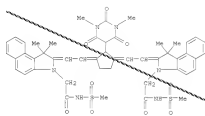


192220-93-6 CAPLUS  
 18-Benz[e]indolium, 2-[[2-[[2-[[1,3-dihydro-7,7-dimethyl-3-[[2-[[methylsulfonyl]amino]-2-acetyl]-2H-indol-2-ylidene]ethyldene]-6,6-dihydro-2H-pyran-3-yl]ethenyl]-3,3-dimethyl-1-[2-[[methylsulfonyl]amino]-2-acetyl]-], inner salt (CA INDEX NAME)

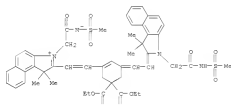


192220-91-2 CAPLUS  
 18-Benz[e]indolium, 2-[[7-[[3,3-dihydro-1,1-dimethyl-3-[[2-[[methylsulfonyl]amino]-2-acetyl]-2H-benz[e]indol-2-ylidene]-1,3,5-heptatriene-1-yl]-1,1-dimethyl-3-[[2-[[methylsulfonyl]amino]-2-acetyl]-], inner salt (CA INDEX NAME)

1,7 ANSWER 46 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

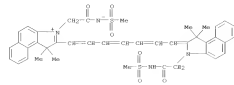


192220-95-4 CAPLUS  
 18-Benz[e]indolium, 2-[[2-[[3-[[2-[[1,3-dihydro-1,1-dimethyl-3-[[2-[[methylsulfonyl]amino]-2-acetyl]-2H-benz[e]indol-2-ylidene]ethyldene]-5,5-bis[ethoxyphenyl]-1-cyclohexen-1-yl]ethenyl]-1,1-dimethyl-3-[[2-[[methylsulfonyl]amino]-2-acetyl]-], inner salt (CA INDEX NAME)

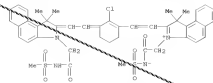


192220-94-5 CAPLUS  
 18-Benz[e]indolium, 2-[[2-[[4-[[2-[[1,3-dihydro-1,1-dimethyl-3-[[2-[[methylsulfonyl]amino]-2-acetyl]-2H-benz[e]indol-2-ylidene]ethyldene]-6,6-dimethylbiphenyl-3-yl]thio]-2-ethoxy]ethenyl]-1,1-dimethyl-3-[[2-[[methylsulfonyl]amino]-2-acetyl]-], inner salt (CA INDEX NAME)

1,7 ANSWER 46 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

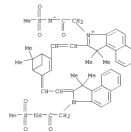


192220-92-1 CAPLUS  
 18-Benz[e]indolium, 2-[[2-[[2-chloro-3-[[2-[[1,3-dihydro-1,1-dimethyl-3-[[2-[[methylsulfonyl]amino]-2-acetyl]-2H-benz[e]indol-2-ylidene]ethyldene]-1-cyclohexen-1-yl]ethenyl]-1,1-dimethyl-3-[[2-[[methylsulfonyl]amino]-2-acetyl]-], inner salt (CA INDEX NAME)

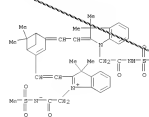


192220-94-3 CAPLUS  
 18-Benz[e]indolium, 2-2'-[[2-(benz[e]indol-2,3-dimethyl-2,4,6-triino-5-yl)indolyl]-1,1,2-cyclohexanediylidene]bis[2,3-ethanedithiolene]bis[1,1,2-dihydro-1,1-dimethyl-3-[[methylsulfonyl]amino]-2-acetyl]-], inner salt (CA INDEX NAME)

1,7 ANSWER 46 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

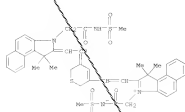


192220-97-6 CAPLUS  
 18-Indolium, 2-[[4-[[2-[[1,3-dihydro-3,3-dimethyl-1-[2-[[methylsulfonyl]amino]-2-acetyl]-2H-indol-2-ylidene]ethyldene]-6,6-dimethylbiphenyl-3-yl]thio]-2-ethoxy]ethenyl]-3,3-dimethyl-1-[2-[[methylsulfonyl]amino]-2-acetyl]-], inner salt (CA INDEX NAME)

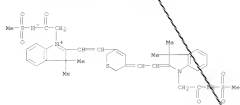


192220-98-7 CAPLUS  
 18-Benz[e]indolium, 2-[[2-[[2-[[1,3-dihydro-1,1-dimethyl-3-[[2-[[methylsulfonyl]amino]-2-acetyl]-2H-benz[e]indol-2-ylidene]ethyldene]-5,6-dihydro-2H-thiopyran-3-yl]ethenyl]-1,1-dimethyl-3-[[2-[[methylsulfonyl]amino]-2-acetyl]-], inner salt (CA INDEX NAME)

L7 ANSWER 47 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)

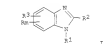


NS 191210-99-8 CAPLUS  
 NS 26-Indolizin, 2-[2-[3-[2-[1,3-dihydro-5,3-dimethyl-1-[2-((methylsulfonyl)amino)-2-oxoethyl]-2H-indol-3-ylidene ethylidene)-5,6-dihydro-18-tauogran-3-ylidene-1,3-dimethyl-1-[2-((methylsulfonyl)amino)-2-oxoethyl)-, inner salt (CA INDEX NAME)



US CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L7 ANSWER 47 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)  
 TW 548172 B 20030121 TW 1997-8630049 19970109  
 <-- IA 9708999 A 13990420 EA 1997-8996 19970109  
 <-- US 6166219 A 20001226 US 1998-91997 19981102  
 <-- US 6353985 B1 20020305 US 2000-492055 20000328  
 <-- PRIORITY APPL. INFO.: JP 1995-343425 A 19951228  
 <-- JP 1996-287676 A 19961009  
 <-- JP 1997-524201 A 19981227  
 <-- WO 1996-293558 W 19961227  
 <-- US 1998-39397 A 19981102  
 <-- ABSTRACT KEYWORD FOR US PATENT AVAILABLE IN L809 DISPLAY FORMAT  
 OTHER SOURCE(S): MEDPAT 127135759  
 GI:

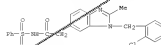


AS The title compds. [2; R1 = R, arylsulfonyl, (un)saturated lower alkyl, etc.; R2 = R, lower cycloalkyl, alkylidene, or alkyl, CH, SH, NH, aryl, etc.; R3 = CO2R, NR2, COR, etc.; R4 = substituting group or H, n = 1-3] are prepared 1, possessing hypoglycemic or PDE5 inhibitory effects, are useful as remedies for impaired glucose tolerance, diabetes, complications of diabetes, insulin resistant syndrome, hyperlipidemia, atherosclerosis, cardiovascular diseases, hyperglycemia, hypertension, angina pectoris, pulmonary hypertension, congestive heart failure, glomerular diseases, tubular interstitial diseases, renal failure, angiotensinosis, peripheral vascular diseases, proptosis, chronic reversible obstructive pulmonary disease, allergic rhinitis, urticaria, glaucoma, diseases characterized by

L7 ANSWER 47 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)  
 ACCESSION NUMBER: 1997-476314 CAPLUS  
 DOCUMENT NUMBER: 127135759  
 ORIGINAL REFERENCE NO.: 127135759  
 TITLE: Preparation of benzimidazole derivatives as drugs  
 INVENTOR(S): Yamashiki, Norikazu; Imoto, Takahiro; Mutsaers, Yoshikazu; Hiramata, Takahiro; Ohi, Teruo; Sawada, Kenzo  
 PATENT ASSIGNOR(S): Fujiwara Pharmaceutical Co., Ltd., Japan  
 SOURCE: JCI Int. Appl., 390 pp.  
 CODE: FIDAC  
 INVENTOR TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY AC: NIM, COMET: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9724314	A1	19970710	MO 1996-293558	19961227
W: AU, BR, CA, CH, CN, DE, ES, FI, FR, GB, GR, HK, IL, JP, KR, MA, ME, NL, NO, NZ, PT, SE, SG, SI, TH, TR, TW, US, ZA				
DE CA 2241106	A1	19970620	CA 1996-2241106	19961227
CA 2241106	C	20040214		
AO 9712025	A	19970710	AO 1997-12095	19961227
AF 725214	B2	20000903		
EP 882718	A1	19961209	EP 1996-943331	19961227
EP 882718	B1	20050931		
R: AT, AU, BR, CH, DE, ES, FI, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, TR, TW, US, ZA				
CH 1211238	A	19990217	CH 1996-100137	19961227
HU 9906025	A2	19990620	HU 1999-625	19961227
HU 9906025	A3	20010428		
BR 9612434	A	19991228	BR 1996-12434	19961227
JP 2000159749	A	20000613	JP 2000-8395	19961227
JP 3067362	B2	20000712	JP 1997-524201	19961227
SE 324834	A	20011130	SE 1996-324834	19961227
IL 124969	A	20010912	IL 1996-124969	19961227
AT 303365	T	20050915	AT 1996-943331	19961227
ES 2244979	T3	20011216	ES 1996-943331	19961227
SA 9610918	A	19970708	SA 1996-10918	19961230

L7 ANSWER 47 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)  
 abnormality in intestinal motility, sexual impotence, nephritis, cancerous oedema, and post-PCI reconstruction. Thus, benzimidazole deriv. (II) = H<sup>+</sup> acetylcholinesterase and diacylglycerol kinase in DMF at 100° for 70 h to give the title compd. II (X = PhSO2NH2), which showed 70% sugar lowering activity when tested with mouse.  
 IT 19910-97-49  
 RU: RUC (Biological activity or effector, except adverse); BSW (Biological study, unclassified); SPN (Synthetic preparation); TSW (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) [Preparation of benzimidazole derivative as drug]  
 NS 19910-97-4 CAPLUS  
 CH 18-Benzimidazole-1-acetamide, 2-((2-chlorophenyl)methyl)-2-methyl-N-((phenylsulfonyl)- (CA INDEX NAME)

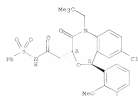


US CITING REF COUNT: 44 THERE ARE 44 CAPLUS RECORDS THAT CITE THIS RECORD (67 CITINGS)  
 REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS FORMAT. ALL CITATIONS AVAILABLE IN THE IE FORMAT



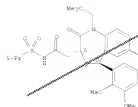
17 ANSWER 48 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)

Absolute stereochemistry.



EN 199059-81-2 CAPLUS  
 CH 4,1-Benzoxazepine-3-acetamide, 7-chloro-5-(2,3-dimethoxyphenyl)-1-(2,2-dimethylpropyl)-1,2,3,5-tetrahydro-N-(1-methylsulfonyl)isufonyl]-2-oxo-, (3R,5S)- (CA INDEX NAME)

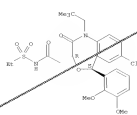
Absolute stereochemistry.



EN 199059-82-3 CAPLUS  
 CH 4,1-Benzoxazepine-3-acetamide, 7-chloro-5-(2,3-dimethoxyphenyl)-1-(2,2-dimethylpropyl)-1,2,3,5-tetrahydro-N-(1-methylsulfonyl)isufonyl]-2-oxo-, (3R,5S)- (CA INDEX NAME)

Absolute stereochemistry.

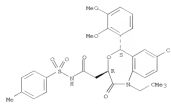
17 ANSWER 48 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)



IT 199059-76-5P 199059-78-7P 199060-07-9P  
 RU STB (Synthetic preparation); THU (Therapeutic use); SIOI (Biological study); FIEP (Preparation); SIES (Uses)  
 Preparation of arylbenzoxazepines as hypotensive agents

EN 199059-76-5 CAPLUS  
 CH 4,1-Benzoxazepine-3-acetamide, 7-chloro-5-(2,3-dimethoxyphenyl)-1-(2,2-dimethylpropyl)-1,2,3,5-tetrahydro-N-(1-methylsulfonyl)isufonyl]-2-oxo-, (3R,5S)- (CA INDEX NAME)

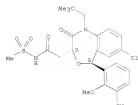
Absolute stereochemistry.



EN 199059-78-7 CAPLUS  
 CH 4,1-Benzoxazepine-3-acetamide, 7-chloro-5-(2,3-dimethoxyphenyl)-1-(2,2-dimethylpropyl)-1,2,3,5-tetrahydro-N-(1-methylsulfonyl)isufonyl]-2-oxo-, (3R,5S)- (CA INDEX NAME)

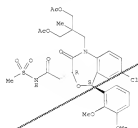
Absolute stereochemistry.

17 ANSWER 48 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)



EN 199060-01-9 CAPLUS  
 CH 4,1-Benzoxazepine-3-acetamide, 1-[3-(acetyloxy)-2-[(acetyloxy)methyl]-2-methylpropyl]-7-chloro-5-(2,3-dimethoxyphenyl)-1,2,3,5-tetrahydro-N-(1-methylsulfonyl)isufonyl]-2-oxo-, (3R,5S)- (CA INDEX NAME)

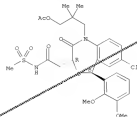
Absolute stereochemistry.



EN 199060-43-5 CAPLUS  
 CH 4,1-Benzoxazepine-3-acetamide, 1-[3-(acetyloxy)-2,2-dimethylpropyl]-7-chloro-5-(2,3-dimethoxyphenyl)-1,2,3,5-tetrahydro-N-(1-methylsulfonyl)isufonyl]-2-oxo-, (3R,5S)- (CA INDEX NAME)

Absolute stereochemistry.

17 ANSWER 48 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)



OS-CITING REF COUNT: 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (60 CITINGS)  
 REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT









L7 ANSWER 34 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

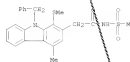


AS Title compds. [1; 1 of R1,R2 = H, alkyl, alkanoyl, aryl, etc. and the other = H, alkyl, aryl(alkyl), R3 = H, amino-protective group, 1 of Y1-Y4 = CO2R, SO2NR2, carbonylaryl(oxy), etc. and the others = H, halo, alkyl, alkoxy, etc.; W = CH2, CH, SO2-2; Z = CH2, CH, NH, N; dashed line = optional bond] were prepared. Data for effect of prepared 1 on acetylcholine binding were given.

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IT 17755Q-QT-1 17755Q-QT-1
E1 E1 EAC (Biological activity or effector, except adverse); R50
[Biological
study, unclassified]; S1N (Synthetic preparation); T5U (Therapeutic use);
R50 (Biological study); P4K5 (Preparation); U5E5 (Use)
[Preparation of heterocyclic compds. useful as allosteric effectors at
muscarinic receptors]
J2 17755Q-QT-1 17755Q-QT-1
J2 J2 Carbazole, 4-methyl-1-[methylsulfonyl]-1-[methylthio]-3-
[phenylamino]- (CA INDEX NAME)

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OS.CITING REF COUNT: 8 THERE ARE 8 CAPUS RECORDS THAT CITE THIS

RECORD

#### FORMAT

17 ANSWER 55 OF 109 CAPLOS COPYRIGHT 2010 ACS on STN (Continued)

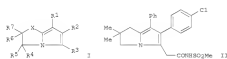
PRIORITY APPLN. INFO.: DE 1994-4419247 A 19940603

$\zeta = 0$

 $\xi_{\text{max}}$ 

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LEADS DISPLAY FORMAT

66



AB Title compds. [1; 2 of R1-R3 = H or (hetero)aryl and the other = COCO<sub>2</sub>H, alkoxycarbonyl, sulfonylcarbamoylalkyl, etc.; R4-R7 = H or alkyl; 2 vicinal R4-R7 = bond; X = CH<sub>2</sub>, O, S, (alkyl)imino, etc] were prepared Thus.

title compound II had IC50 of  $2.3 \times 10^{-7}$  and  $1.5 \times 10^{-7}$  (units not given)

against lipoxygenase and cyclooxygenase, resp.

17	174347-96-7P	174347-97-8P	174347-98-9P
	174347-99-0P	174348-07-3P	174348-08-4P

174348-09-5P      174348-10-8P      174348-11-9P

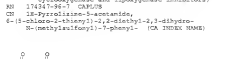
174348-12-QP 174348-14-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological)

study, unclassified); SPN (Synthetic preparation); TEU (Therapeutic u

BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of N-sulfonylpyrrolidineacetamides and analogs as cyclooxygenase and lipoxygenase inhibitors)



○

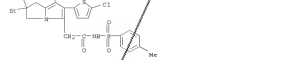
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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1.7 ANSWER 55 OF 109 CAPLOS COPYRIGHT 2010 ACS on STM (Continued)

N-[(4-methylphenyl)sulfonyl]-7-phenyl- (CA INDEX NAME)

10.1386

Figure 1



REF 174347-98-9 CAPLOS

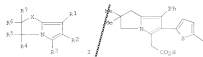
CN 1H-Pyrrolizine-5-acetamide, 6-(5-chloro-2-thienyl)-2,3-dihydro-2,2-dimethyl-2H-pyrrolizine-5-acetamide, 2-chloro-5-(2,2-dimethyl-2,3-dihydro-1H-pyrrolizine-5-carbonyl)-thiophene (CN, 200000, 200000)



...  $\frac{1}{2} \frac{d}{dt} \left( \frac{1}{2} \frac{d}{dt} \right)$



17 ANSWER 56 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)  
 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LEGIS DISPLAY FORMAT  
 OTHER SOURCE(S): MARKPAT 124.202009  
 GI

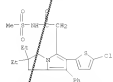


AB Title compds. I of 13-87 = heterocyclic, 1 of the remaining = H or heteroaryl, and the remaining = H, CO<sub>2</sub>, carbonyl(alkyl), alkoxy(alkenyl), etc.; R4-R7 = H or alkyl; 2 of chemical 24-87 = benzyl, 6 = CH<sub>2</sub>, CO, O, S, etc.] were prepared. Thus, title compound II had IC<sub>50</sub> of 4.0-7.0 and

24.0-30.0 (units not given) against lipoxigenase and cyclooxygenase, resp.  
 IT 174347-96-7P 174347-97-8P 174347-98-3P  
 174347-99-2P  
 ELI RAC (biological activity or effector, except adverse); R2U

(biological) study, unclassified); SPH (Synthetic preparation); THO (Therapeutic use); R2U (Biological study); P2D (Preparation); USES (Use) as [preparation of heteropyrrolizines and analogs as cyclooxygenase and lipoxigenase inhibitors]

RI 174347-96-7 CAPLUS  
 CN 18-Pyrrolizine-5-acetamide, 6-(5-chloro-2-thienyl)-2,3-dihydro-2,2-dimethyl-N-[(4-methylsulfonyl)phenyl]-7-phenyl- (CA INDEX NAME)



RI 174347-97-8 CAPLUS  
 CN 18-Pyrrolizine-5-acetamide, 6-(5-chloro-2-thienyl)-2,3-dihydro-2,2-dimethyl-N-[(4-methylsulfonyl)phenyl]-7-phenyl- (CA INDEX NAME)

17 ANSWER 57 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

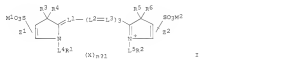
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LEGIS DISPLAY FORMAT  
 OTHER SOURCE(S): MARKPAT 124.202009  
 GI

AB Title compds. I of 13-87 = heterocyclic, 1 of the remaining = H or heteroaryl, and the remaining = H, CO<sub>2</sub>, carbonyl(alkyl), alkoxy(alkenyl), etc.; R4-R7 = H or alkyl; 2 of chemical 24-87 = benzyl, 6 = CH<sub>2</sub>, CO, O, S, etc.] were prepared. Thus, title compound II had IC<sub>50</sub> of 4.0-7.0 and

24.0-30.0 (units not given) against lipoxigenase and cyclooxygenase, resp.  
 IT 174347-96-7P 174347-97-8P 174347-98-3P  
 174347-99-2P  
 ELI RAC (biological activity or effector, except adverse); R2U

(biological) study, unclassified); SPH (Synthetic preparation); THO (Therapeutic use); R2U (Biological study); P2D (Preparation); USES (Use) as [preparation of heteropyrrolizines and analogs as cyclooxygenase and lipoxigenase inhibitors]

RI 174347-96-7 CAPLUS  
 CN 18-Pyrrolizine-5-acetamide, 6-(5-chloro-2-thienyl)-2,3-dihydro-2,2-dimethyl-N-[(4-methylsulfonyl)phenyl]-7-phenyl- (CA INDEX NAME)



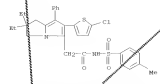
AB The material has a hydrophilic colloidal layer containing 21 dye I [11-2 = nonmetal atoms to form benzo or naphtho condensed ring; 14-5 = C1-4 alkylene, R1-2 = COR<sub>1</sub>, SO<sub>2</sub>NR<sub>2</sub>; R = COR<sub>1</sub>, SO<sub>2</sub>NR<sub>2</sub>; R7 = alkyl; R3-6 = alkyl, R3 and R4 or R5 and R6 may form a ring; 11-3 = methine (which may link to form 3- or 6-membered ring); M1-2 = alkali metal salt, ammonium salt, etc.; Charge X = anionic; n = 1-2, when inner salt is formed, n = 1]. The material shows good storage stability and less residual color after bleaching.

IT 175202-19-6 175202-22-1  
 RI, DUV (base component use); M2A (Modifier or additive use); USES (Uses)

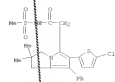
RI 175202-19-6 CAPLUS  
 CN 28-Indolium, 2-[1-(2,3-dihydro-2,3-dimethyl-1-(2-[(methanesulfonyl)amino]-2-oxoethyl)-5-sulfo-2H-imidazol-2-ylidene)-1-yl]-2-[(methanesulfonyl)amino]-2-oxoethyl]-5-sulfo-, inner salt, potassium salt (1:1) (CA INDEX NAME)

AB Title compds. I of 13-87 = heterocyclic, 1 of the remaining = H or heteroaryl, and the remaining = H, CO<sub>2</sub>, carbonyl(alkyl), alkoxy(alkenyl), etc.; R4-R7 = H or alkyl; 2 of chemical 24-87 = benzyl, 6 = CH<sub>2</sub>, CO, O, S, etc.] were prepared. Thus, title compound II had IC<sub>50</sub> of 4.0-7.0 and

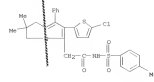
17 ANSWER 56 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



RI 174347-96-9 CAPLUS  
 CN 18-Pyrrolizine-5-acetamide, 6-(5-chloro-2-thienyl)-2,3-dihydro-2,2-dimethyl-N-[(4-methylsulfonyl)phenyl]-7-phenyl- (CA INDEX NAME)



RI 174347-97-9 CAPLUS  
 CN 18-Pyrrolizine-5-acetamide, 6-(5-chloro-2-thienyl)-2,3-dihydro-2,2-dimethyl-N-[(4-methylsulfonyl)phenyl]-7-phenyl- (CA INDEX NAME)



GC CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD  
 (6 CITINGS)

17 ANSWER 57 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

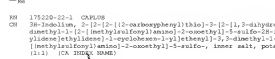
ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LEGIS DISPLAY FORMAT  
 OTHER SOURCE(S): MARKPAT 124.202009  
 GI

AB Title compds. I of 13-87 = heterocyclic, 1 of the remaining = H or heteroaryl, and the remaining = H, CO<sub>2</sub>, carbonyl(alkyl), alkoxy(alkenyl), etc.; R4-R7 = H or alkyl; 2 of chemical 24-87 = benzyl, 6 = CH<sub>2</sub>, CO, O, S, etc.] were prepared. Thus, title compound II had IC<sub>50</sub> of 4.0-7.0 and

24.0-30.0 (units not given) against lipoxigenase and cyclooxygenase, resp.  
 IT 174347-96-7P 174347-97-8P 174347-98-3P  
 174347-99-2P  
 ELI RAC (biological activity or effector, except adverse); R2U

(biological) study, unclassified); SPH (Synthetic preparation); THO (Therapeutic use); R2U (Biological study); P2D (Preparation); USES (Use) as [preparation of heteropyrrolizines and analogs as cyclooxygenase and lipoxigenase inhibitors]

RI 174347-96-7 CAPLUS  
 CN 18-Pyrrolizine-5-acetamide, 6-(5-chloro-2-thienyl)-2,3-dihydro-2,2-dimethyl-N-[(4-methylsulfonyl)phenyl]-7-phenyl- (CA INDEX NAME)



AB The material has a hydrophilic colloidal layer containing 21 dye I [11-2 = nonmetal atoms to form benzo or naphtho condensed ring; 14-5 = C1-4 alkylene, R1-2 = COR<sub>1</sub>, SO<sub>2</sub>NR<sub>2</sub>; R = COR<sub>1</sub>, SO<sub>2</sub>NR<sub>2</sub>; R7 = alkyl; R3-6 = alkyl, R3 and R4 or R5 and R6 may form a ring; 11-3 = methine (which may link to form 3- or 6-membered ring); M1-2 = alkali metal salt, ammonium salt, etc.; Charge X = anionic; n = 1-2, when inner salt is formed, n = 1]. The material shows good storage stability and less residual color after bleaching.

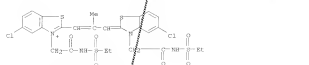
IT 175202-19-6 175202-22-1  
 RI, DUV (base component use); M2A (Modifier or additive use); USES (Uses)

RI 175202-19-6 CAPLUS  
 CN 28-Indolium, 2-[1-(2,3-dihydro-2,3-dimethyl-1-(2-[(methanesulfonyl)amino]-2-oxoethyl)-5-sulfo-2H-imidazol-2-ylidene)-1-yl]-2-[(methanesulfonyl)amino]-2-oxoethyl]-5-sulfo-, inner salt, potassium salt (1:1) (CA INDEX NAME)

AB Title compds. I of 13-87 = heterocyclic, 1 of the remaining = H or heteroaryl, and the remaining = H, CO<sub>2</sub>, carbonyl(alkyl), alkoxy(alkenyl), etc.; R4-R7 = H or alkyl; 2 of chemical 24-87 = benzyl, 6 = CH<sub>2</sub>, CO, O, S, etc.] were prepared. Thus, title compound II had IC<sub>50</sub> of 4.0-7.0 and



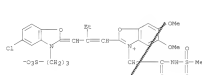
1,7 ANSWER 83 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)



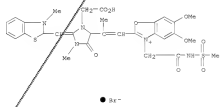
83 17336-58-3 CAPLUS  
 CN Benzothiazolium, 5-chloro-2-[3-[5-chloro-3-[2-[(ethoxycarbonyl)amino]-2-oxoethyl]-2-(2-oxoethyl)amino]-2-oxoethyl]-1-propen-1-yl]-1-[2-[(ethoxycarbonyl)amino]-2-oxoethyl]- (CA INDEX NAME)

05 CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS  
 RECORD (1 CITINGS)  
 REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE  
 FORMAT

1,7 ANSWER 84 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN (Continued)



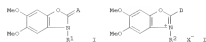
84 17336-59-3 CAPLUS  
 CN Benzothiazolium, 2-[2-[2-[(carboxymethyl)-2-[2,3-dihydro-3-methyl-2-benzothiazolyl)methyl]eno-1-methyl-3-oxo-4-imidazolidinyl]-1-propen-1-yl]-5,6-dimethoxy-3-[2-[(methoxycarbonyl)amino]-2-oxoethyl]-, bromide (1:1) (CA INDEX NAME)



1,7 ANSWER 85 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN

ACCESSION NUMBER: 1995-951720 CAPLUS  
 DOCUMENT NUMBER: 124101746  
 ORIGINAL REFERENCE NO.: 124181789, 187524  
 TITLE: Silver halide photographic material spectrally sensitized by cyanine dye  
 INVENTOR(S): Kitar, Shigeyasu; Kawanishi, Nobuo  
 PATENT ADDRESSEE(S): Konishiroku Photo Ind. Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 51 pp., C/Chem, JGK/AF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY NO., NUM. COUNTRY: 1  
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07209732	A	19950511	JP 1994-2731	19940214
PRIORITY APPL. INFO.:			JP 1994-2731	19940214



85 The claimed photog. material has at least one Ag halide emulsion layer spectrally sensitized by a merocyanine dye I (R1 = Cl-10 aliphatic group with water-solubilizing substituent; A = group forming a merocyanine dye and linked through conjugated bonds with the oxazole moiety) or cyanine dye II (R2 = Cl-10 aliphatic group with water-solubilizing substituent; B = group forming a cyanine dye and linked through conjugated bonds with the oxazole moiety X- = counter ion). The spectral sensitizers increase both photog. speed and wash off property resulting in low residual dye stain. They are suited for color papers and medical x-ray films of rapid processing types.  
 86 172356-56-8 172356-59-3  
 RI: 86V (Device component use); USES (Uses)  
 [silver halide photog. material spectrally sensitized by cyanine dye]  
 87 172356-56-8 CAPLUS  
 CN Benzothiazolium, 2-[2-[3-[5-chloro-3-[2-(ethoxycarbonyl)-2(1H)-benzothiazolylidene]methyl]-1-butene-3-yl]-5,6-dimethoxy-3-[2-[(methoxycarbonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

1,7 ANSWER 86 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STN

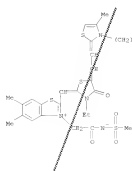
ACCESSION NUMBER: 1995-173573 CAPLUS  
 DOCUMENT NUMBER: 123170436  
 ORIGINAL REFERENCE NO.: 123481834, 491664  
 TITLE: Silver halide photographic material spectrally sensitized by trimolecular cyanine and containing hydrazine for enhanced contrast  
 INVENTOR(S): Yoshida, Tetsuo  
 PATENT ADDRESSEE(S): Fuji Photo Film Co Ltd, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 57 pp., C/Chem, JGK/AF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY NO., NUM. COUNTRY: 1  
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07120463	A	19950512	JP 1993-286148	19931022
JP 3038462	B2	20000508	JP 1993-286148	19931022

PRIORITY APPL. INFO.:

86 For diagram(s), see printed CA issue.  
 87 The photog. material contains (1) a hydrazine derivative  
 88 (Ag halide photog. material spectrally sensitized by trimolecular cyanine and containing hydrazine for enhanced contrast)  
 89 168469-23-4 CAPLUS  
 CN Benzothiazolium, 2-[3-methyl-5-[2-(4-methyl-3-(4-ethoxycarbonyl)-2(1H)-thiazolylidene]thylidene]-4-oxo-2-thiazolidenylidene]methyl]-5,6-dimethyl-3-[2-[(methoxycarbonyl)amino]-2-oxoethyl]-, inner salt; potassium salt (1:1) (CA INDEX NAME)

1,7 ANSWER 41 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)



1,7 ANSWER 42 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM

ACCESSION NUMBER: 1995-75374 CAPLUS  
 DOCUMENT NUMBER: 125101415  
 ORIGINAL REFERENCE NO.: 125153774, 537784  
 TITLE: Silver halide photographic materials providing low residual color  
 INVENTOR(S): Fuso, Kouichi; Suga, Shozo  
 PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 31 pp.  
 COUNTRY: JAPAN  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNTRY: 1  
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 0718779	A	19950513	JP 1993-293825	19931101
U.S. 5589225	A	19961231	US 1996-589210	19960102
PRIORITY APPL. INFO.: JP 1993-293825 A 19931101				
U.S. 1996-331193 E1 19941028				

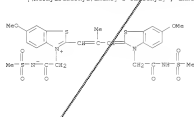
ASSESSMENT HISTORY FOR US PATENT AVAILABLE IN LONG DISPLAY FORMAT  
 G1



AB The materials comprise supports coated with Ag halide emulsions that are spectrally sensitized by DYE-Gs or DYE-G-n [DYE = methylene dye; n = 1, 3; G, G' = substituent TIGRIN2 or TIGRIN-G2 (T1 = linking group; G1 = CO, SO2, G2 = CO2, SO2, SO2, CH2, CH2 = monovalent group)] and contains a phenoxyl alc. 1 [R = alkylene, X = halo, SO2, alkyl, (substituted) amino, COR2, SO2M (R2 = H, OH, alkyl, alkoxy, (substituted) amino, M, alkali metal, monovalent cation); n = 0-5]. The materials show high sensitivity and low residual color.

IT 165594-05-8  
 RI: TM (Technical or engineered material use); USES (Uses): (Ag halide photog. material containing spectral sensitizing dye and phenoxyl alc. for low residual color stain)  
 RI 165594-05-8 CAPLUS  
 CH Benzothiazolium,  
 6-methoxy-2-[3-[6-methoxy-3-[2-[methoxy(alkyl)amino]-2-

1,7 ANSWER 43 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)



1,7 ANSWER 43 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM

ACCESSION NUMBER: 1995-74641 CAPLUS  
 DOCUMENT NUMBER: 15414156  
 ORIGINAL REFERENCE NO.: 1247609a, 7611a  
 TITLE: Image forming method by hydrazine-containing silver halide photographic material spectrally sensitized by trimelitic cyanide  
 INVENTOR(S): Yoshida, Tetsuo  
 PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 59 pp.  
 COUNTRY: JAPAN  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNTRY: 1  
 PATENT INFORMATION: 1

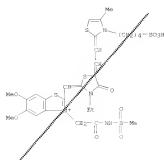
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07120893	A	19950512	JP 1993-287316	19931025
PRIORITY APPL. INFO.: JP 1993-287316 19931025				

AB The photog. material, having 21 Ag halide emulsion layer (250 mol% AgCl) and containing hydrazine compound 2H12A25112 [R1 = aliphatic, aromatic; R2 = H, alkyl, aryl, unsat. heterocyclic, etc.; G1 = CO, SO2, SO, COCO, CH, iminoethylene; Al, R2 = H, (substituted) alkyl, aryl, etc.] and a spectral sensitizer 1 (L1-7 = methylene), is developed by a dihydroxybenzene-free developer containing FC(17C)(Al)C(18)Q [R1, R2 =

(substituted) amino, SO, alkylthio; R, Q = OH, carbonyl, alkoxy, (substituted) alkylthio, amino, aryl; 7 = O, SO2, R1 = H, CH, (substituted) alkyl, aryl]. The photog. material may contain a nucleating accelerator of amines, disulfides, oximes, and/or hydroxyethyl compounds. The material gives an image with high contrast suitable for graphic arts.

IT 168091-51-8  
 RI: DEV (Developer component use); USES (Uses): (sensitizer) development of hydrazine-containing Ag halide photog. materials  
 RI 168091-51-8 CAPLUS  
 CH Benzothiazolium, 2-[13-ethyl-5-[2-[4-methyl-3-[4-sulfoethyl]-2-[3-(chloroethyl)dimethylidene]-6-methoxy-2-thiazolidinyl]amino]methyl]-6,6-dimethoxy-3-[2-[methoxy(alkyl)amino]-2-methoxy]-, sodium salt (1:1)  
 (CA INDEX NAME)

1,7 ANSWER 43 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)



1,7 ANSWER 44 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM

ACCESSION NUMBER: 1995-172005 CAPLUS  
 DOCUMENT NUMBER: 123-97735  
 ORIGINAL REFERENCE NO.: 123-17379A, 17382A  
 TITLE: Methine compounds and silver halide photographic materials containing the compound.  
 INVENTOR(S): Inagaki, Toshiyuki Soga, Shuro  
 PATENT ASSIGNER(S): Fuji Photo Film Co., Ltd., Japan  
 SOURCE: Eur. Pat. Appl., 57 pp.  
 COUNTRY: JPN  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 638841	A2	19950215	EP 1994-108493	19940607
EP 638841	A3	19950913		
EP 638841	B1	20000419		
JP 07056245	A	19950303	JP 1994-125318	19940607
JP 3483049	B2	20040106		
US 5464714	A	19951127	US 1994-257051	19940608

PRIORITY APPL. INFO.: JP 1993-137462 A 19930608

ASSESSMENT REPORT FOR US PATENT AVAILABLE IN L508 DISPLAY FORMAT

OTHER SOURCE(S): NIMCAT 123-97735

AS A Ag halide photog. material contains a compound of formula (I) (I: (G) or (I) (G) = a methine dye residue; G and C = each = a substituent for the methine dye residue, and are represented by formulas -71-G- and -71-C-; G = a divalent linking group; G1 = a carbonyl group, a sulfonyl group, or a sulfonyl group; G2 = -CO-72, -SO-72, -SO2-72, or a cyano group; and 72 = a monovalent group; n = an integer of from 1 to 6). The spectral sensitivity of the material is high, and the material has few residual color after processing.

IT 165394-02-5

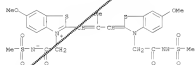
RI: WCA (Modifier or additive use); USES (Uses)

(photog. sensitizers)

RI 165394-02-5 CAPLUS

CH Benzothiazolium, 2-[4-{[2-methoxy-3-[2-[(methylethylamino)-2-4-methoxy-2-(72)-benzothiazolylidene]-2-methyl-1-propen-1-yl]-3-[2-[(methylethylamino)-2-oxomethyl]-, inner salt (CA INDEX NAME)

1,7 ANSWER 44 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)



CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

1,7 ANSWER 45 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM

ACCESSION NUMBER: 1995-60779 CAPLUS  
 DOCUMENT NUMBER: 123-183962  
 ORIGINAL REFERENCE NO.: 123-23644h, 23654h  
 TITLE: Silver halide photographic materials and methine compounds  
 INVENTOR(S): Inagaki, Toshiyuki  
 PATENT ASSIGNER(S): Fuji Photo Film Co Ltd, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
 COUNTRY: JPN  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 0128782	A	19950318		

PRIORITY APPL. INFO.: JP 1993-276653 19931105

GI



I



II

AS The photog. materials contains the compound I or II (G = benzothiazole, thiazolium; L1-4 = methine; 71 = divalent residue; G = CO, SO, SO2, G2 = CO72, SO72, SO272, CH72 = monovalent residue; R1-3 = alkyl, allylene forming heterocycle; X = anion). The methine compounds I and II are claimed. The materials prevent residual color stains.

IT 16767-02-5

RI: DEV (Device component use); USES (Uses)

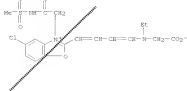
(benzothiazole spectral sensitizing dye for silver halide photog. materials)

RI 16767-02-5 CAPLUS

CH Benzothiazolium, 2-[4-{[2-methoxy-3-[(2-methoxy-1,3-butadien-1-yl)-5-chloro-3-[2-[(methylethylamino)-2-oxomethyl]-, inner salt (CA INDEX NAME)



17 ANSWER 43 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)



17 ANSWER 44 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM  
 ACCESSION NUMBER: 1995-041373 CAPLUS  
 DOCUMENT NUMBER: 124-8801  
 ORIGINAL REFERENCE NO.: 124-1881a,104a  
 TITLE: Substituted indole-, indene-, pyrazindole- and tetrahydrocarbazolecarboxylic acid derivatives as inhibitors of PLA2 and lipoygenase  
 INVENTOR(S): Mosser, John R.; Keffi, Anthony F.; Titi, Khalil; Amadio, A.; Demerson, Christopher A.; Shah, Umesh S.; Neilson, James A.  
 PATENT ASSIGNEE(S): American Home Products Corporation, U.S., 35 pp., Cont.-in-part of U.S. 5,229,516.  
 SOURCE: CORDIS W63209  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 3  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5420289	A	19950506	US 1993-29199	19930710
CA 2090042	A1	19950428	CA 1990-2090042	19901017
US 5229516	A	19930720	US 1992-911434	19930710
PRIORITY APPL. INFO.			US 1989-428260	B2 18931017
			US 1990-596134	B2 19901017
			US 1992-911434	A2 19930710
			CA 1990-2090432	A3 19931017

ASSESSMENT HISTORY FOR US PATENT AVAILABLE IN L005 DISPLAY FORMAT  
 OTHER SOURCE(S): CASREACT 114:8801; MARPAT 114:8801  
 GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

A\* This invention relates to substituted indole derivs. A(CR1)OR where R1 =

I or II wherein R1 is hydrogen, lower alkyl, Ph or Ph substituted with trifluoromethyl; R2 is hydrogen or lower alkyl or R1 and R2 taken together form a heterocyclic ring; R3 is hydrogen or lower alkyl; R is 1-12; R4 is III-VII wherein R4 is, e.g., CO2R5, R is 0-9; R5 is A(CR2)OR6 or R4 or Ph substituted by Ph, lower alkylthio, lower alkylsulfonyl, or lower alkylsulfonyl; R6 is A(CR2)OR6 or halo; R7 is lower alkyl; Y is CH2 or O; R8 is lower alkyl or (CR2)OR9; R9 is CO2R10 or (CR2)OR10, o is 1-4;

R10 is lower alkyl, Ph, Ph substituted with carbonyl, halo, lower alkyl, loweralkylthio or loweralkylsulfonyl; naphthyl, pyridyl, furyl,

17 ANSWER 45 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)  
 quinolonyl, or 2-8-(thiazolyl), R11 is lower alkyl or phenyl; R12 is hydrogen or loweralkyl;carbonyl, R13 is hydrogen, hydroxy, lower alkyl or lower alkyl; R14 is Ph or halo;phenyl; R5 is hydrogen, lower alkyl or R(CR2)OR6, and the pharmaceutically acceptable salts thereof possessing lipoygenase inhibitory, phospholipase A2 inhibitory and leukotriene antagonist activity, which are useful as anti-inflammatory, antiallergic and cytoprotective agents. Thus, e.g., condensation of 2-methyl-5-(2-quinolonylmethyl)indene-3-acetic acid in water (prop. gives, mixt. of endo and exo isomers) with p-chlorobenzaldehyde afforded

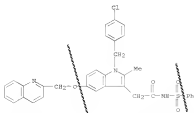
3-[[4-(chlorophenyl)methylene]-2-methyl-6-(2-quinolonylmethyl)-3H-indene-1-acetic acid (VII), O = 2-quinolonylmethyl, mixt. of E (major) and Z (minor) isomers]. The specificity of action of PLA2 inhibitors can be detd. by the activity of test compds. to inhibit the synthesis of LTB4 by rat glycerol-elutriated polymorphonuclear leukocytes (PMN) in the presence of exogenous substrate; VIII demonstrated 90% inhibition at 10 nM. VIII also inhibited the synthesis of the arachidonic acid cyclooxygenase

product PGE2 with 50% inhibition at 10 nM. VIII inhibited the release of arachidonic acid from an arachidonic acid-contg. substrate by the action of phospholipase A2 enzyme from human synovial fluid with IC50 = 9.7 nM. Further assays demonstrated that the compds. of the invention exerted an inhibitory effect on both the lipoygenase pathway and the cyclooxygenase pathway and have significant leukotriene (LTB4) antagonist activity. The compds. of the invention inhibited the acute inflammatory response and inhibited 5-lipoygenase in human whole blood.

IT 135872-84-3P  
 R1, RAC (biological activity or effector, except adverse); R50

(biological activity, unclassified); SM (Synthetic preparation); TH (Therapeutic use); R10 (Biological study); R10 (Preparation); C2 (Chemical structure); (substituted indole-, indene-, pyrazindole- and tetrahydrocarbazolecarboxylic acid derivs. as inhibitors of PLA2 and lipoygenase).

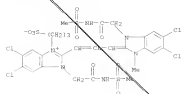
R1 135872-84-3 CAPLUS  
 CH 15-Indole-3-aceticamide, 1-[[4-(chlorophenyl)methyl]-2-methyl-6-(phenylsulfonyl)-5-(2-quinolonylmethyl)- (CA 2090432)



CS-CITING REF COUNT: 23 THERE ARE 23 CAPLUS RECORDS THAT CITE THIS RECORD (23 CITINGSS)



1.7 ANSWER 69 OF 109 CAPLES COPYRIGHT 2010 ACS on STM (Continued)  
 X-gly-3-[2-3-[(methoxycarbonyl)amino]-2-oxoethyl]-1-[3-sulfopropyl]-, inner salt (CA INDEX NAME)



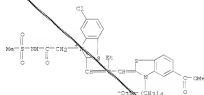
1.7 ANSWER 69 OF 109 CAPLES COPYRIGHT 2010 ACS on STM  
 ACCESSION NUMBER: 1995-37978 CAPLES  
 DOCUMENT NUMBER: 122118768  
 ORIGINAL REFERENCE NO.: 122120274, 220304  
 TITLE: silver halide color photographic material  
 INVENTOR(S): Iizuka, Masayuki (Iizuka, Masayuki)  
 PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 51 pp.  
 CUBRI: JKOJAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04138574	A	19940508	JP 1992-309751	19931024
PRIORITY APPL. INFO.: JP 1992-309751 19931024				
C1				



AB A silver halide color photo. material showing improved photosensitivity and granularity without causing increased residual color formation after development comprises a1 photosensitive silver halide emulsion layer and a2 nonphotosensitive layer, wherein the silver halide grains in the photosensitive silver halide emulsion layer contain 24 mol% of R<sup>1</sup> and 21 of the photo. layer contains 21 methine compound represented by the formula I [R<sup>1</sup> = -(CH<sub>2</sub>)<sub>2</sub>CO<sub>2</sub>H, (CH<sub>2</sub>)<sub>2</sub>SO<sub>2</sub>CH<sub>3</sub>, (CH<sub>2</sub>)<sub>2</sub>SO<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, or (CH<sub>2</sub>)<sub>2</sub>SO<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub> where R<sup>3</sup> = 6-alkyl, alkoxy, or amino; r, s, t, u = an integer of 1-5; R<sup>2</sup> = alkyl or R<sup>1</sup>; L<sup>1</sup>, L<sup>2</sup> = a nonmetallic atomic group necessary for forming a 5-6-membered heterocyclic ring; p, q = 0 or 1; L<sup>1</sup>, L<sup>2</sup> = a methine group; a = 0, 1, or 2; X = an anion; k = a number necessary to adjust the charge of the compound to 0].  
 IT 14934-36-TP  
 RI SW (Synthetic preparation) / TIM (Technical or engineered material use) / PEP (Preparation) / USE (Use)  
 (Preparation and use of, in silver halide color photo. material)  
 RI 14934-36-7 CAPLES  
 RI Benzothiazolium, 5-chloro-2-[2-[[5-(methoxycarbonyl)-7-(4-sulfobutyl)-2(1H)-benzothiazolylidene]methyl]-1-butene-1-yl]-7-[2-

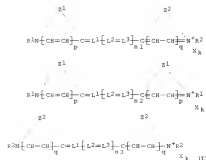
1.7 ANSWER 70 OF 109 CAPLES COPYRIGHT 2010 ACS on STM (Continued)  
 [(methoxycarbonyl)amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)



ON CITING REF COUNT: 1 THERE ARE 1 CAPLES RECORDS THAT CITE THIS RECORD  
 (1 CITING)

1.7 ANSWER 70 OF 109 CAPLES COPYRIGHT 2010 ACS on STM  
 ACCESSION NUMBER: 199444159 CAPLES  
 DOCUMENT NUMBER: 121441509  
 ORIGINAL REFERENCE NO.: 121438614, 43964  
 TITLE: silver halide photographic material  
 INVENTOR(S): Iizuka, Masayuki (Iizuka, Masayuki)  
 PATENT ASSIGNEE(S): Fuji Photo Film Co Ltd, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 56 pp.  
 CUBRI: JKOJAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03261322	A	19930115	JP 1992-94972	19930223
US 5308748	A	19940503	US 1993-35497	19930323
PRIORITY APPL. INFO.: JP 1992-94972 A 19930223				
C1				

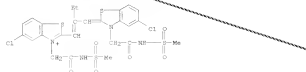


AB The title photo. material contains I, and II and/or III [R<sup>1</sup> = -(CH<sub>2</sub>)<sub>2</sub>CO<sub>2</sub>H, (CH<sub>2</sub>)<sub>2</sub>SO<sub>2</sub>CH<sub>3</sub>, (CH<sub>2</sub>)<sub>2</sub>SO<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>, or (CH<sub>2</sub>)<sub>2</sub>SO<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>; R<sup>2</sup> = 6-alkyl, alkoxy, amino; r, s, t, u = 1-5; R<sup>3</sup> = non-metallic atomic group necessary to complete a 5- or 6-membered heterocyclic ring; L<sup>1</sup>, L<sup>2</sup> = methine]

L7 ANSWER 71 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)  
 n = 0-2; X = anion; k = no. to neutralize charge in mol.; p, q = 0, 1] as  
 its Ag halide photop. emulsion layers. This material shows reduced  
 residual color and high sensitivity.

IT 157158-16-2 157158-18-4  
 157158-16-2 157158-18-4  
 (photop. sensitiser)  
 (photo. sensitiser)

CH Benzo[1,2-b:4,5-b']diazepine, 5-chloro-2-[2-[[1-(5-chloro-3-[2-[[1-(2-methylsulfonyl)amino]-2-acetoxyethyl]-2-methylsulfonyl]amino]-2-acetoxyethyl]-2-methylsulfonyl]amino]-2-acetoxyethyl]-, 4-methylbenzenesulfonate (1:1) (CA INDEX NAME)



• Br<sup>-</sup>

CH 157158-18-4 CAPLUS  
 CH Benzo[1,2-b:4,5-b']diazepine, 5-chloro-2-[3-[5-chloro-3-[2-[[1-(2-methylsulfonyl)amino]-2-acetoxyethyl]-2-methylsulfonyl]amino]-2-acetoxyethyl]-2-methylsulfonyl]amino]-2-acetoxyethyl]-, 4-methylbenzenesulfonate (1:1) (CA INDEX NAME)

CH 1

CHN 157158-17-3

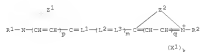
CMF C26 R27 C12 H4 O8 S4

L7 ANSWER 71 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM

ACCESSION NUMBER: 1994147485 CAPLUS  
 DOCUMENT NUMBER: 151127485  
 ORIGINAL REFERENCE NO.: 121393754, 293754  
 TITLE: Silver halide photographic photosensitive material  
 INVENTOR(S): Aida, Shunichi; Ikegawa, Akikiko  
 PATENT ASSIGNEE(S): Fuji Photo Film Co. Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 48 pp.  
 COORDIN. SYNOUS

DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01297498	A	19931112	JP 1992-125467	19920420
PRIORITY APPL. INFO.: JP 1992-125467 19920420				
OTHER SOURCE(S): MARPAT 121:217485				



AS In the title material, X] of the Ag halide emulsion layers contains  
 a Ag halide emulsion having a Ag halide grain size <0.3 μm and  
 X] kind(s) of methine compds. 1 [X] = (G2):r-CORR80-2-X2,  
 (G2):r-CORR80-4, (G2):r-CORR80-5, (G2):r-CORR80-6; X3-6 = alkyl,  
 alkoxy, amino; r, s, t, u = 1-3; X2 = X1, alkyl; X1-2 = atoms for forming  
 a 5- or 6-membered heterocyclic ring; p, q = 0, 1; L1-L3 = methane; m =

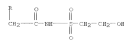
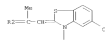
0,  
 1, 2; X1 = anion; k = a number for adjusting mol. charge to 0. The  
 material  
 shows high spectral sensitivity, little residual color after development,  
 and improved graininess.

IT 148350-04-3P  
 R1 AC (Reactant) STM (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 R2 (Preparation and reaction of, for spectral photop. sensitizing dye)

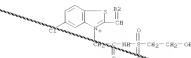
CH 148350-04-3 CAPLUS  
 CH Benzo[1,2-b:4,5-b']diazepine, 5-chloro-2-methyl-3-[2-[[1-(methanesulfonyl)amino]-2-acetoxyethyl]-, succinate (1:1) (CA INDEX NAME)

L7 ANSWER 70 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)

PAGE 1-A



PAGE 2-A



CH 2

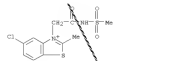
CHN 14722-51-3

CMF C7 H7 O3 S



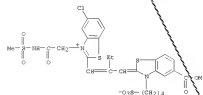
OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS  
 RECORD  
 (2 CITINGS)

L7 ANSWER 71 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)



• Br<sup>-</sup>

IT 148364-36-7  
 R1: US85 (uses)  
 (spectral photop. sensitizing dye)  
 CH 148364-36-7 CAPLUS  
 CH Benzo[1,2-b:4,5-b']diazepine, 5-chloro-2-[2-[[1-(methanesulfonyl)amino]-2-acetoxyethyl]-2-methylsulfonyl]amino]-2-acetoxyethyl]-, inner salt (CA INDEX NAME)



17 ANSWER 72 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)  
 ACCESSION NUMBER: 1994:617476 CAPLUS  
 DOCUMENT NUMBER: 1211217476  
 ORIGINAL REFERENCE NO.: 1211217476, 293746  
 TITLE: Silver halide color photographic material  
 INVENTOR(S): Sakurada, Mamoru; Iizawa, Akihiko  
 PATENT ASSIGNER(S): Fuji Photo Film Co Ltd, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 81 pp.  
 COCEN: J000AF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 6046197	A	19931031		19930319
PRIORITY APPL. INFO.:				
JP 6046197			JP 1992-92356	19920319

OTHER SOURCE(S):  
 GI

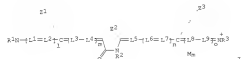


AS The title full color photog. material contains 1 [R1 = -(CH2)4CORR0003, -(CH2)4CORR0004, -(CH2)4CORR0005, -(CH2)4CORR0006, R2-4 = alkyl, alkoxy, aralkyl, s, t, u = 1-5; R2 = same as R1 or alkyl; R2, 2 = non-metallic atoms required to complete a 5- or 6-membered heterocyclic ring; L1-3 = methine; n = 6-2 x s; alkoxy: x = number to neutralize charge 10 mol.; p, q = 0, 1], and a negative complex 11 [R3 = H, substituent; 2 = non-metallic atoms required to complete a 5-membered azole ring containing 2-4 H's; X = s, group releasable on coupling reaction with oxidized developing agent]. This material shows reduced residual color.  
 IT 149701-97-4  
 RI 7EM (Technical or engineered material use); USES (Uses) (photog. sensitizers)

17 ANSWER 73 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)  
 ACCESSION NUMBER: 1994:591599 CAPLUS  
 DOCUMENT NUMBER: 1211591599  
 ORIGINAL REFERENCE NO.: 121134484a, 34486a  
 TITLE: methine compound and silver halide photographic material using same  
 INVENTOR(S): Sakai, Takamori; Ikegawa, Akihiko  
 PATENT ASSIGNER(S): Fuji Photo Film Co Ltd, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.  
 COCEN: J000AF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

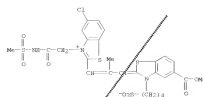
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 5217484	A	19931022		19930216
PRIORITY APPL. INFO.:				
JP 5217484			JP 1992-98503	19920326

OTHER SOURCE(S):  
 GI

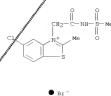


AS Claimed are a methine compound 1 [R1-3 = atoms required to complete a 5- or 6-membered N-containing heterocyclic ring; L1-3 = methine group; 1, o = 0, 1; n, m = 0; M = counter ion; m1 2 0; R2, 3 = alkyl; R2 = alkyl, aryl, heterocyclyl]. The title Ag halide photog. material contains 20 methine compound claimed above. This material shows high sensitivity and reduced residual color.  
 IT 157939-94-1 157939-94-2 157939-94-3  
 RI USES (Uses) (photog. sensitizing dyes)  
 RI 157939-94-2 CAPLUS  
 CN Benzoethanolium, 5-chloro-2-[3-(ethoxy-5-(2-ethyl-2-[3H]-benzothiazolylidene)-4-oxo-2-thiazolidinylidene)methyl]-3-[2-(methoxyisofonyl)amino]-2-oxoethyl-1-, iodide (1:1) (CA INDEX NAME)

17 ANSWER 72 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)  
 RI 149702-97-4 CAPLUS  
 CN Benzoethanolium, 5-chloro-2-[3-[5-(methoxyisofonyl)-2-(3H)-benzothiazolylidene]-2-methyl-1-propen-3-yl]-3-[2-(methoxyisofonyl)amino]-2-oxoethyl-1-, inner salt (CA INDEX NAME)

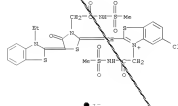


IT 149702-94-3P, 5-chloro-3-methanesulfonylaminocarbonylmethyl-2-methylbenzothiazolium bromide  
 RI: ACT (Reaction); SPN (Synthetic preparation); PREP (Preparation); PACT (Reaction on product)  
 [preparation and reaction of, photog. sensitizer from]  
 IT 149702-94-4 CAPLUS  
 CN Benzoethanolium, 5-chloro-2-methyl-3-[2-(methoxyisofonyl)amino]-2-oxoethyl-1-, bromide (1:1) (CA INDEX NAME)



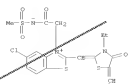
17 ANSWER 73 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)

RI 157939-94-2 CAPLUS  
 CN Benzoethanolium, 5-chloro-2-[5-(12-ethyl-2-[3H]-benzothiazolylidene)-3-[2-(methoxyisofonyl)amino]-2-oxoethyl]-4-oxo-2-thiazolidinylidene[methyl]-3-[2-(methoxyisofonyl)amino]-2-oxoethyl-1-, iodide (1:1) (CA INDEX NAME)



RI 157939-94-3 CAPLUS  
 CN Benzoethanolium, 5-chloro-3-[2-(methoxyisofonyl)amino]-2-oxoethyl-2-[3-[2-(methoxyisofonyl)amino]-2-oxoethyl]-5-[2-(methoxyisofonyl)amino]-2-oxoethyl-1-, iodide (1:2) (CA INDEX NAME)

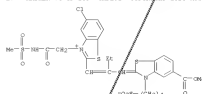
L2 ANSWER 73 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)



● 8-

● **3x =**

L7 ANSWER 74 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)



17 148350-04-3P, 5-Chloro-3-methanesulfonfylaminoacarbonylemethyl-2-methoxybenzothiazium bromide  
E1: NCT (Reactant); SFM (Synthetic preparation); PREP (Preparation); RACTOZ (Reactant or reagent)  
(preparation and reaction of, for photoq. sensitizing methine dye)

EN 148350-04-3 CBXUO

CN 148350-04-3P, 5-chloro-2-(methylsulfonyl)amino]-2-gyoxethyl-, benz., bromide, [1:1] (CA INDEX NAME)



Diagram illustrating the structure of a  $B^-$  meson, showing a dashed line representing a quark and a solid line representing an antiquark, with a dot in between labeled  $B^-$ .

A diagram showing a point labeled  $Bx^-$  located near a line. The line is oriented diagonally, sloping upwards from left to right. The point  $Bx^-$  is positioned to the right of the line, slightly above its midpoint.

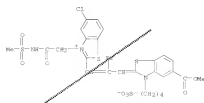
A diagram showing a point labeled  $Bx^-$  located near a line. The line is oriented diagonally, sloping upwards from left to right. The point  $Bx^-$  is positioned to the right of the line, slightly above its midpoint.







L1 ANSWER 78 OF 102 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



L7	ANMERK 79 OF 109	CAPLUS	COPYRIGHT 1920 ACS ON STN
ACCESSION NUMBER:		1994-444833	CAPLUS
DOCUMENT NUMBER:		121-44483	
ORIGINAL REFERENCE NO.:		121-82234	82244
TITLE:		Silver halide color photographic material	
AUTHOR(S):		Nagasaki, Satoshi; Yamahata, Katsuyoshi; Yamamoto, Matsuro; Tsuzuki, Makoto; Shimada, Yasuhiro; Nagasaki, Katsuro; Ikeda, Hideto; Kato, Tadao	
Subject:		Fuji Photo Film Co. Ltd., Japan	
ARTIST ASSIGNEE(S):		Int. Pat. Appl., 1st pr.	
SOURCE:		EUREP: EP40406	
DOCUMENT TYPE:		Patent	
LANGUAGE:		English	
FAMILY ACQ. NUM. COUNT:	1		
ADDITIONAL INFORMATION:			

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 546115	A1	19931020	EP 1993-104636	19930405
JP 0528920	H, HE, DE, FY, CN, NL	19931105	JP 1992-118862	19920405
US 5460323	A	19931024	US 1993-45776	19930424
US 5578441	A	19961126	US 1994-315573	19940930
PRIORITY APPL. INFO.:			JP 1992-118862	19920405
			US 1993-45776	19930424

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT  
OTHER SOURCE(S): MARPAT 121:46483  
CT



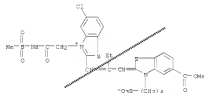
AB There is disclosed a silver halide color photo. material having 21 red-sensitive silver halide emulsion layer, 21 green-sensitive silver halide emulsion layer, and 21 blue-sensitive silver halide emulsion layer, wherein 21 of the emulsion layers contains 21 cyan dye-forming compound represented by the formula I wherein Ia represents NH or CH<sub>3</sub>, Rb and Rc represent CR<sub>4</sub> or R, R1-3 represent an electron-attracting group wherein the Hammett substituent constant  $\sigma$  value is 0.20 or more, provided that the sum of the  $\sigma$  p value of R1

17 ANSWER 79 OF 109 CHAPTER COPYRIGHT 2010 ACS on STN (Continued)

may be the same or different, and X represents a hydrogen atom or a group capable of being released upon a coupling reaction with the oxidized product of an azo. Primary amine color-developing agent, provided that  $\alpha$ -nitro- $\beta$ -nitrophenyl azo compounds may form a benzoyl or a copolymer by bonding with a dimer or higher polymer or polymer chain and  $\alpha$  sensitizing dye group, a sulfonamide group.

148364-36-7  
KL: USZS (Uses)

148364-36-7 CAPLUS  
Benzoethiazolin, 5-chloro-2-{2-[[5-(methoxycarbonyl)-3-(4-sulfobutyl)-2(3H)-benzothiazolylidene]methyl]-1-buten-1-yl]-3-(2-methyl-1-methyl-1-oxoethyl)-2-oxoethyl}- inner salt (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS  
RECORD  
(1 CITINGS)

1.7 ANSWER 80 OF 109 CAPLOS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1994:475622 CARLOS  
DOCUMENT NUMBER: 121:35621  
ORIGINAL REFERENCE NO.: 121:6587a, 6590a  
TITLE: Preparation of triazonyl- and pyrimidinylalkanoic acid

INVENTOR(S): anide derivatives as herbicides  
Maruda, Katsuni; Toyabe, Keiji; Yoshimura, Takumi  
Machida, Taro

PATENT ASSIGNEE(S): Yoshida, Ryo  
Kumiai Chemical Industry Co, Japan; Ihara Chemical  
Ind

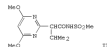
SOURCE: Co  
Jpn. Kokai Tokkyo Koho, 21 pp.  
English transl. - 1980000000

DOCUMENT TYPE: Patent  
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06041090	A	19940215	JP 1991-337875	19911126
<-- PRIORITY APPLN. INFO.:				
<-- OTHER SOURCE(S):			MURPAT 121:35621	

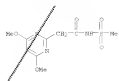
OTHER SOURCE(S) :  
01



N3 Triazinyl-, azacyridinyl-,alkalanoindes [1] E1 = R, CB, (un)substituted alkyl, alkenyl, alkynyl, alkyl, benzyloxy, alkaryloxy, alkynyloxy; E2 = SO<sub>2</sub>R, CB, alkoxo, benzyloxy, alkeryloxy, cyano, (un)substituted Ph, NR<sub>2</sub>, (un)substituted phenyl, (un)substituted benzyl, (un)substituted allyl, (di)alkenyl, 1-pyrrolidinyl, amino; E3 = H, (un)substituted alkyl, haloalkenyl, alkynyl, (alkyl)oxyalkyl, cycloalkenyl, (un)substituted cyclohexylmethyl, (un)substituted cyclopentylmethyl, (un)substituted benzyl, (halo)alkyl, alkoxymethyl, alkoryl, (alkyl)phenyl, haloalkoxy, alkeryloxy, alkyniloxy, alkylthio, PHS, NH, (di)alkylenyl, pyrrolidinyl; Z = CH, N), and/or herbicides for a rice paddy, a plowed field, and nonagricultural.

land are prepared. Thus, di-Et 2-isopropylmalonate was treated with NaH at 60° for 30 min and condensed with N-[2-(4,6-dimethoxyphenyl)imidin-2-yl]-2-isopropylmalonamide to give di-Et 2-[4-(4,6-dimethoxyphenyl)imidin-2-yl]-2-isopropylmalonamide which was refluxed with NaOH in aqueous MeOH for 6 h and acidified with dilute HCl to give 2-(4-(4,6-dimethoxyphenyl)imidin-2-yl)-3-methylbutyric acid. The latter compound condensed with carbonyl diimidazole in THF to give 85-74 N-[2-(4-(4,6-dimethoxyphenyl)imidin-2-yl)-3-methylbutyryl]imidazole which was

17 ANSWER 82 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)  
 anidated with Me2SOE2 in DMF contg. NaI to give 76.8% title compd. (17).  
 II and other 21 I at 25 q/10 are in preemergence soil-application  
 controlled trials on 75-89. 7 weeds including *Echinochloa crus-galli*,  
*Amorpha retrofracta*, and *Chenopodium album*. A total of 1 were prepd.  
 140754-79-07  
 81A ACS (Agricultural use); BMC (Biological activity or effector, except  
 adverse); BMD (Biological study, unclassified); BPP (Synthetic  
 preparation); BZC (Biological study); PRP (Preparation); SES (Uses)  
 (preparation of, as herbicide)  
 82 140754-79-5 CAPLUS  
 83 2-Pyrrolidinacetamide, 4,6-dimethoxy-N-methylsulfonyl- (CA INDEX NAME)



17 ANSWER 81 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM  
 ACCESSION NUMBER: 1994-374777 CAPLUS  
 DOCUMENT NUMBER: 120134777  
 ORIGINAL REFERENCE NO.: 120134777, 596524  
 TITLE: Direct positive silver halide photographic material  
 containing sensitized dyes  
 INVENTOR(S): Kato, Shinichi; Ikegawa, Akiko; Yamamoto, Masayuki  
 PATENT ASSIGNEE(S): Fuji Photo Film Co. Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.  
 CODES: JGKAG  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NOM. COUNTRY: J  
 PATENT INFORMATION: 1

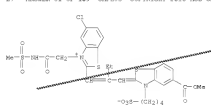
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05127292	A	19930525	JP 1991-313046	19911101
PRIORITY APPL. INFO.:			JP 1991-313046	19911101
CI				



AB In the title photog. material having on its support 31  
 photosensitive emulsion layer(s) containing unexposed internal latent  
 image-type Ag halide grains, 1 of sensitizing dye I [R1 =  
 (CR2)2(CO)CH2CH2, (CR2)2(CO)CH2CH2, R4 = alkyl; R, s = 1-5); R2 =  
 sulfoalkyl; R1, R2 = non-metallic atoms required to form 5-membered  
 heterocycle; p, q = 0, 1; L1-L3 contains a 5-2] is contained. The  
 photog. material shows high stability and Japan  
 color  
 residue after processing.  
 IT 14364-36-7  
 81A USES (Uses)  
 (sensitizing dye, direct pos. photog. material using)

81 140754-79-7 CAPLUS  
 82 Benzothiazolium, 5-thio-2-[(1-{[5-methoxycarbonyl]-3-(4-sulfonyl)-  
 2[3H]-benzothiazolylidene]methyl}-3-methyl-1-yl)-3-[2-  
 [methanesulfonyl]amino]-2-methyl]-, inner salt (CA INDEX NAME)

17 ANSWER 82 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)



17 ANSWER 81 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM  
 ACCESSION NUMBER: 1994-296485 CAPLUS  
 DOCUMENT NUMBER: 120128462  
 ORIGINAL REFERENCE NO.: 120128462, 520684  
 TITLE: Substituted indoles, indenes, pyranomimetic and  
 tetrahydrocarbazole-alkanoic acid derivatives as  
 inhibitors of phospholipase A2 and lipoprotein  
 INVENTOR(S): Nasser, John H.; Kew, Anthony P.; Iiz, Faliu,  
 Amedeo A.; Demer, Christopher A.; Shah, Vireh S.;  
 Nelson, James A.  
 PATENT ASSIGNEE(S): American Home Products Corp., USA  
 SOURCE: U.S. 32 pp. Cont.-in-part of U.S. Ser. No. 596,134,  
 abandoned.  
 CODES: WOXMM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NOM. COUNTRY: 3  
 PATENT INFORMATION: 3

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5229516	A	19930720	US 1992-911434	19920710
CA 2070422	A1	19930428	CA 1990-2070422	19901027
CA 2090042	A1	19930428	CA 1990-2090042	19901027
HU 63407	A2	19930830	HU 1992-1383	19901027
US 5420289	A	19950530	US 1993-29139	19930310
WO 8401407	A2	19840120	WO 1983-056441	19830707
WO 8401407	A3	19840303		
MI AU, BB, BG, BP, BY, CA, CF, FI, HU, JP, KR, KS, LK, NO, NG, NZ, PL, PT, RU, SI, SE, SF, SG, SK, TH, TR, UA, VN				
FM, AT, BE, CH, DE, DK, ES, FF, GB, GR, IE, IT, LU, MC, NL, PT, SE, SF, SK, SF, CF, CS, CL, OM, GR, HU, NO, NZ, RU, TH, TD, TO				
AD 934684	A	19940131	AD 1993-46694	19930707
PRIORITY APPL. INFO.:			US 1989-628260	B2 19931027
			US 1990-596174	B2 19931027
			CA 1990-2070422	A3 19931027
			US 1992-911434	A2 19930710
			WO 1993-056441	A 19930707
ASSESSMENT HISTORY FOR US PATENT AVAILABLE IN L600 DISPLAY FORMAT				
OTHER SOURCE(S):				
CI				



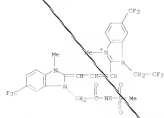






17 ANSWER 90 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)

[methylsulfonyl]amino]-2-acetoethyl]-5-[5-(trifluoromethyl)-26-benzimidazo-2-ylidene]-1-propen-1-yl]-1-methyl-3-(7,2,2-trifluoroethyl)-5-(trifluoroethyl)- (CA INDEX NAME)



OF CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

17 ANSWER 90 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)

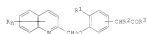
ACCESSION NUMBER: 1997-38772 CAPLUS  
DOCUMENT NUMBER: 11818772  
ORIGINAL REFERENCE NO.: 11818784, 1064

TITLE: Preparation of 2-cycloalkyl-5-[(quinoxalylmethoxy)phenyl] acetates as lipoperoxidase inhibitors  
INVENTOR(S): Haddad, Samir; Mohr, Klaus Helmut; Mathe, Michael; Fruchtmann, Roman; Matzeimann, Armin; Rohlschöfer, Christian; Müller-Poddighe, Heinz; Thelen-Popp, Pia

PATENT ASSIGNOR(S): Bayer A.-G., Germany  
SOURCE: Eur. Pat. Appl., 52 pp.  
LANGUAGE: German  
FAMILY REC. NUM. COUNT: 3  
PATENT INFORMATION:

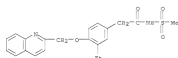
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 439926	A1	19950826	EP 1992-102156	19920210
EP 439926	B1	19960911		
DE 4303343	B2	19950827	DE 1993-430551	19930222
AG 9210542	A	19930807	AG 1993-30542	19930219
AG 441185	B2	19970923		
AT 142623	T	19960915	AT 1992-102156	19920210
ES 5091958	T3	19961116	ES 1992-102156	19920210
JP 05092957	A	19930416	JP 1992-49073	19930228
IL 101009	A	19960804	IL 1992-101009	19920219
PL 170726	B1	19970131	PL 1992-29374	19920219
PL 171026	B1	19970228	PL 1992-31468	19920219
FI 9200732	A	19920823	FI 1992-732	19920220
SA 9201268	A	19931125	SA 1992-1268	19920221
HO 2077532	C1	19970410	HO 1992-1010907	19920221
CE 282723	B6	19970917	CE 1992-514	19920221
FIJORITY APPL. INFO.			DE 1993-430551	A 19920222
OTHER SOURCE(S):		MAKPAT 11818772		
GI				

17 ANSWER 90 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)

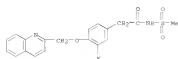


AB Title compd. (I) 3 = H, OH, halo, alkyl, aryl, etc.; R1 = halo, OH, alkyl, aryl, etc.; R2 = cycloalkyl, alkylaryl 3) = OH, alkoxyl, OP, arylsulfonyl, etc.; n = 1-6) were prepared. Thus, 3,4,4'-trifluorobenzimidazole was esterified and the product condensed with 2-chloromethylquinoline to give, after alkylation with cyclopentyl bromide, 2,4-bis(10,10-dichlorobenzimidazole) 3) = cyclopentyl, 34 = 2-quinoxalylmethyl (I); R1 = F; II (R1 = CH(CH3) had TO5 of 0.56  $\mu$ M for inhibition of 5-lipoxygenase in vitro.

IT 145043-26-1  
R1: RCT (Reaction); RACT (Reactant or reagent)  
R2 145043-26-1 CAPLUS  
CN Benzeneacetamide, 3-ethyl-N-(methylsulfonyl)-4-(2-quinoxalylmethoxy)- (CA INDEX NAME)



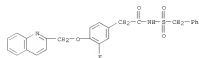
IT 145043-39-5P 145043-00-1P 145043-05-6P  
R1: RCT (Reaction); SPR (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
R2 145043-39-5 CAPLUS  
CN Benzeneacetamide, 3-fluoro-N-(methylsulfonyl)-4-(2-quinoxalylmethoxy)- (CA INDEX NAME)



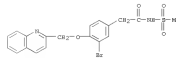
R2 145043-00-1 CAPLUS

17 ANSWER 90 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)

CN Benzeneacetamide, 3-fluoro-N-(phenylmethylsulfonyl)-4-(2-quinoxalylmethoxy)- (CA INDEX NAME)



R2 145043-05-6 CAPLUS  
CN Benzeneacetamide, 3-bromo-N-(methylsulfonyl)-4-(2-quinoxalylmethoxy)- (CA INDEX NAME)



OF CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

17 ANSWER 92 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)  
 ACCESSION NUMBER: 1992:428283 CAPLUS  
 DOCUMENT NUMBER: 1172825  
 ORIGINAL REFERENCE NO.: 1175924, 594  
 TITLE: Preparation of N-sulfonamides as herbicides  
 Inventor(s): Toyabe, Koichi; Yoshimura, Takao; Masuda, Tatsumi; Yoshida, Ryo  
 PATENT ASSIGNER(S): Nippon Kagaku Kogyo K. K., Japan; Ibara Chemical Kogyo  
 SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 0405418	A	19920223	JP 1990-166271	19900625
PRIORITY APPL. INFO.			JP 1990-166271	19900625
OTHER SOURCE(S):		MANPAT 117:2825		
GI				



AB Herbicides contain N-sulfonamides [R = (halo)alkyl, (un)substituted Ph, R1 = H, alkyl, (halo)alkenyl, cycloalkyl, cycloalkenyl, cycloalkylalkyl, (un)substituted Ph, R2 = alkyl, (halo)alkenyl, halo] or their salts as active ingredients. MEGSIN was treated with HCl in DMF at room temperature for 1 h, followed by treatment with 2-(4,6-dimethoxy-2-pyridinyl)-3-methylbutyrylpyridin-2-yl-N-methyl-L-proline derivative for 1 h to give 76.84% (R = Me, R1 = MeOCH3, R2 = Y = OMe), which, at 100 g/ha, showed almost complete control of Echinochloa crus-galli oxyrioides, Monochoria vaginalis, and Scirpus gumosus. Formulation examples are given.

IT 140704-78-55  
 RI ACS (Agricultural use); BAC (Biological activity or effector, except adverse); BNS (Biological study, unclassified); BPN (Synthetic preparation); BTO (Biological study) PREP (Preparation); USES (Uses) (Preparation of, as herbicide)

17 ANSWER 92 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)  
 ACCESSION NUMBER: 1992:25542 CAPLUS  
 DOCUMENT NUMBER: 11625642  
 ORIGINAL REFERENCE NO.: 11649354b, 4355b  
 TITLE: Preparation of 2-(4,6-dimethoxy-2-pyridinyl)-3-methylbutyrylpyridin-2-yl)-N-methyl-L-proline derivative compounds as herbicides  
 Inventor(s): Jones, Graham Peter  
 PATENT ASSIGNER(S): Schering Agrochemicals Ltd., UK  
 SOURCE: PCT Int. Appl., 22 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION: 1

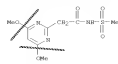
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9201677	A1	19920206	WO 1991-081152	19910712
W: AU, BR, CA, CH, FI, FR, JP, PL, SE, US				
INT. AT, BR, CH, DE, DM, ES, FR, GB, GR, IT, LU, NL, SE				
AC 9152996	A	19920218	AU 1991-80396	19910712
EP 539427	A1	19920205	EP 1991-92894	19910712
BR, AT, BE, CH, DE, DM, ES, FR, GB, GR, IT, LU, NL, SE				
US 5317005	A	19940531	US 1993-966169	19930119
PRIORITY APPL. INFO.			US 1990-15916	19900719
			WO 1991-081152	19910712

OTHER SOURCE(S): MEGSIN 116:25542  
 GI



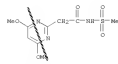
AB ACIDIC/NEUTRAL [2 = a pyridinyl or triazinyl residue (R = amino, (un)substituted alkyl); R1 = (un)substituted cycloalkyl, -Ph, -heterocyclyl; R2 = H, halo, alkyl; R3, R4 = H, alkyl, alkoxy, H2O, dialkylamino, halo, X = CH3, N] and their salts, were prepared, e.g., by condensation reaction of pyridines or triazines (R1 = leaving group) with acetic acid KNO3/CH3COOH. Thus, 20 ml of 2.5 M n-BuLi in benzene was added at -70° under N2 to a stirred solution of 4.67 g N-methyl-L-proline-2-(2-(2-thienyl)acetamide) in THF, the mixture was stirred 2 h at room temperature, treated by 5.45 g

17 ANSWER 92 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)  
 RI 140704-78-5 CAPLUS  
 CH 2-Pyridinylacetamide, 4,6-dimethoxy-N-methyl-L-proline (CA INDEX NAME)



OC. CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD  
 (1 CITINGS)

17 ANSWER 92 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)  
 4,6-dimethoxy-2-methylbutyrylpyridin-2-yl)-N-methyl-L-proline derivative, stirred overnight at room temp. to give 1.8 g little comp. (I, a = 4,6-dimethoxy-2-pyridinyl, R = Me, R1 = 2-thienyl, R2 = R). The latter at 0.25 kg/ha preemergence gave 90-100% control of Veronica persica and 70-80% control of Stellaria media.  
 Gellan agarose, and Polygonum lapathifolium. Approx. 32 I were prep.  
 IT 140704-78-55  
 RI ACS (Agricultural use); BAC (Biological activity or effector, except adverse); BNS (Biological study, unclassified); BPN (Synthetic preparation); BTO (Biological study) PREP (Preparation); USES (Uses) (Preparation of, as herbicide)  
 RI 140704-78-5 CAPLUS  
 CH 2-Pyridinylacetamide, 4,6-dimethoxy-N-methyl-L-proline (CA INDEX NAME)



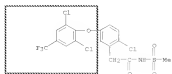
OC. CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD  
 REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RI  
 FORMAT







17 ANSWER 97 OF 109 CAPSULES COPYRIGHT 2010 ACS on STM (Continued)  
 12 h as H2O-MeOH contg. HCl to give II (R = CO2Me).  
 IT 126454-64-9F  
 RI ACS (Agricultural use); BAC (Biological activity or effector, except  
 adrenergic); ESO (Biological study, unclassified); ESW (Synthetic  
 preparation); EVO (Biological study); FEPD (Preparation); USES (Uses)  
 [preparation of, as herbicide]  
 RU 126454-64-8 CAPSULE  
 CH Benzeneacetanilide, 2-chloro-5-[2,6-dichloro-6-(trifluoromethyl)phenyl]-N-  
 methylsulfonyl- (CA INDEX NAME)



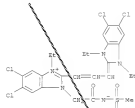
17 ANSWER 98 OF 109 CAPSULES COPYRIGHT 2010 ACS on STM  
 ACCESSION NUMBER: 1982-464327 CAPSULE  
 DOCUMENT NUMBER: 97-64127  
 ORIGINAL REFERENCE NO.: 97-30394, 06062  
 TITLE: Photographic recording material with variable contrast  
 INVENTOR(S): Germet, Robert; Burger, Theo  
 PATENT ASSIGNMENT(S): Sola-Germet S. A. G., Fed. Rep. Ger.  
 SOURCE: Ger. Offen., 35 pp.  
 CUBRI: GEMER  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY KCY, NUM. COUNTRY: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3628167	A1	1982-04-01	DE 1980-3028167	1980-07-15
PRIORITY APPL. INFO.:			DE 1980-3028167	1980-07-15

AB A variable contrast photog. material is described which possesses high sensitivity for summer exposure and shows a sufficiently steep gradation in the blue spectral region for use as a scan film along with a 30-1000 filter gradation in the green spectral region in comparison to the blue exposure. The material consists of a support with 3 emulsion layers, one of which is sensitive to blue and green light and the other which is sensitive to blue light. The exposure factor of the gradation curve for the blue sensitive layer lies in the region of its green sensitivity upon exposure of the material with light from 500 to 620 nm at a d. of 1.0-2.0 of the gradation for the green sensitivity. The material is especially useful.

In the production of color segms. by exposure with a scanner and exposure in a copy apparatus for a y-x-variable material.  
 IT 53132-05-6  
 RU 78M (Technical or engineered material use); USES (Uses)  
 [photog. sensitizer, for variable contrast films for scanner exposure]  
 RU 53132-05-6 CAPSULE  
 CH 18-Benzimidazolium, 5,6-dichloro-2-[3-(5,6-dichloro-1,3-diethyl-1,3-dihydro-2H-benzimidazol-2-ylidene)-1-propen-1-yl]-1-methyl-3-[2-[methylsulfonyl]amino]-2-oneethyl]-, inner salt (CA INDEX NAME)

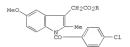
17 ANSWER 96 OF 109 CAPSULES COPYRIGHT 2010 ACS on STM (Continued)



OB-CITING REF COUNT:  
 RECORD

THERE ARE 1 CAPSULE RECORDS THAT CITE THIS  
 (1 CITINGS)

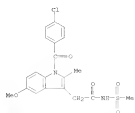
17 ANSWER 97 OF 109 CAPSULES COPYRIGHT 2010 ACS on STM  
 ACCESSION NUMBER: 1981-608959 CAPSULE  
 DOCUMENT NUMBER: 95-6959  
 ORIGINAL REFERENCE NO.: 95-13148, 13154  
 TITLE: Chemical structure and antiinflammatory activity in the group of substituted indole-3-acetic acids  
 INVENTOR(S): Bolte, K. J.; Brandler, C.; Jacob, U.; Optiz, W.; Radatz, S.; Seidel, P. J.; Vollbrecht, D.  
 CORPORATE SOURCE: Akt. Chem. Forsch., Tropenwerke O.N. & Co. K.-G., Cologne, 5050/80, Fed. Rep. Ger.  
 SOURCE: Arzneimitt.-Forschung 1990, 30/88, 134-35  
 CUBRI: ARMDAD; ESRN: 0004-4172  
 DOCUMENT TYPE: Journal  
 LANGUAGE: German  
 OTHER SOURCE(S): G2  
 CABBACT 9516959



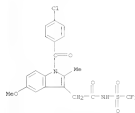
AB About 110 potential antiinflammatory compds. were prepared by systematically modifying indometacin (I; R = H) by modifying the α-methylene group, derivatizing the COOH group, substituting the 4-Cl-CH2CO2R moiety by ether aryl groups, introducing other substituents into the indole ring, and fusing other heterocycles to the indole ring. Of all these compds., acetamin (I; R = C(CH3)2) showed approx. 2 times the activity of I (R = H) in the histamine-induced rat paw edema test. Further modification of acetamin did not improve its activity. Apparently substitution of the indole nucleus and the acetoacetic acid side chain are responsible for the high activity.

IT 76112-35-8F 76112-35-1F 76112-31-2F  
 RU ESW (Synthetic preparation); FEPD (Preparation)  
 RU 76112-35-8 CAPSULE  
 CH 18-Indole-3-acetamide, 1-(4-chlorobenzoxy)-5-methoxy-2-methyl-8-methylsulfonyl- (CA INDEX NAME)

L7 ANSWER 97 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)

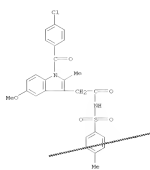


720 76812-19-1 CAPLUS  
CN 18-Indole-3-acetamide, 1-[4-chlorobenzoyl]-5-methoxy-2-methyl-9-[(4-fluorophenyl)sulfonyl]-. (CA INDEX NAME)



721 76812-32-2 CAPLUS  
CN 18-Indole-3-acetamide, 1-[4-chlorobenzoyl]-5-methoxy-2-methyl-9-[(4-methylphenyl)sulfonyl]-. (CA INDEX NAME)

L7 ANSWER 97 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)



722 CITING REF COUNT: 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)

L7 ANSWER 98 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM

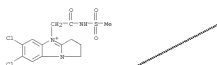
ACCESSION NUMBER: 19761664904 CAPLUS  
DOCUMENT NUMBER: 85464804  
ORIGINAL REFERENCE NO.: 85126274,10450a  
TITLE: Methine dyes  
INVENTOR(S): Libeer, Marcel J.; Depoorter, Henri; Van Mierlo, Gerrie G.; Lemahieu, Raymond G.  
PATENT ASSIGNEE(S): Agfa-Gevaert N. V., Belg.  
SOURCE: U.S., 46 pp.  
CODEN: USQOAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3931146	A	19760306	US 3978-354770	19760400
GB 1961-19269	A	19610529	US 1962-197925	A3 19620528
US 1966-547140	A1	19660302		

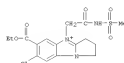
==> PRIORITY APPL. INFO.:  
==>  
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GI

L7 ANSWER 98 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)

The syntheses of the heterocyclic nuclei and the cyanine dyes derived from them were given. Representative dye structure are: I [59506-84-2], II [59506-85-3], and III [59506-86-4].  
IT 59504-84-4P 59504-92-6P 59504-99-3P  
59505-22-5P  
R1: IMP (Industrial manufacture); PREP (Preparation) (Preparation and cyanine dye manufacture from)  
NI 59504-84-6 CAPLUS  
CN 18-Pyrrole[1,2-a]benzimidazolium, 6,7-dichloro-2,3-dihydro-4-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, bromide (1:1) (CA INDEX NAME)



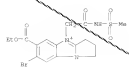
● Br<sup>-</sup>  
NI 59504-92-6 CAPLUS  
CN 18-Pyrrole[1,2-a]benzimidazolium, 6,7-dichloro-2,3-dihydro-4-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, bromide (1:1) (CA INDEX NAME)



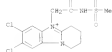
● Br<sup>-</sup>  
NI 59504-99-3 CAPLUS  
CN 18-Pyrrole[1,2-a]benzimidazolium, 7-aceto-6-(4-hydroxyphenyl)-2,3-dihydro-4-[2-[(methylsulfonyl)amino]-2-oxoethyl]-, bromide (1:1) (CA INDEX NAME)

AS One hundred thirty-four cyanine dyes containing the pyrazoloquinoline, benzimidazoloquinoline, and dipyrromethylenediazole nuclei were prepared and their photosensitizing properties determined in Ag halide emulsion.

1,7 ANSWER 98 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)



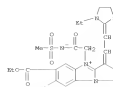
20 59105-32-5 CAPLUS  
CN Pyrido[1,2-a]benzimidazolium, 7,8-dichloro-4-[2-(3-ethyl-2-[methylsulfonyl]amino)-2-oxoethyl]-, bromide [1:1] (CA INDEX NAME)



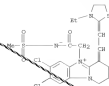
37 59105-69-9P 59105-76-9P 59105-84-9P  
59104-52-4P 59106-71-7P  
X1 5910 [Synthetic preparation] FREE (Preparation)

20 59105-69-2 CAPLUS  
CN 18-Pyrido[1,2-a]benzimidazolium, 7-chloro-6-(ethoxycarbonyl)-3-[2-(3-ethyl-2-[thiazolidinylidene]ethylidene)-2,3-dihydro-4-[2-[methylsulfonyl]amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

1,7 ANSWER 98 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)

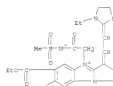


20 59105-76-3 CAPLUS  
CN Pyrido[1,2-a]benzimidazolium, 7,8-dichloro-4-[2-(3-ethyl-2-[thiazolidinylidene]ethylidene)-2,3-dihydro-5-[2-[methylsulfonyl]amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

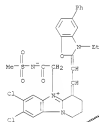


20 59105-84-9 CAPLUS  
CN 18-Pyrido[1,2-a]benzimidazolium, 7-bromo-6-(ethoxycarbonyl)-3-[2-(3-ethyl-2-[thiazolidinylidene]ethylidene)-2,3-dihydro-4-[2-[methylsulfonyl]amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

1,7 ANSWER 98 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)

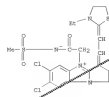


20 59104-52-4 CAPLUS  
CN Pyrido[1,2-a]benzimidazolium, 7,8-dichloro-4-[2-(3-ethyl-5-phenyl-2-[thiazolidinylidene]ethylidene)-2,3,4-tetrahydro-5-[2-[methylsulfonyl]amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)



20 59104-52-4 CAPLUS  
CN 18-Pyrido[1,2-a]benzimidazolium, 6,7-dichloro-3-[2-(3-ethyl-2-[thiazolidinylidene]ethylidene)-2,3-dihydro-4-[2-[methylsulfonyl]amino]-2-oxoethyl]-, inner salt (CA INDEX NAME)

1,7 ANSWER 98 OF 109 CAPLUS COPYRIGHT 2010 ACS ON STM (Continued)



OR SETTING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

17 ANSWER 99 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER:

DOCUMENT NUMBER:

ORIGINAL REFERENCE NO.:

TITLE:

AUTHOR(S):

CORPORATE SOURCE:

SOURCE:

MEETING DATE 1972, 35-81.

ACADEMIC: London, Engl.

CONFERENCE:

LANGUAGE:

AB

A new crystallog. form, the (100) habit, of AgCl was prepared. The

absorption spectra of sensitizing dyes adsorbed on AgCl crystals with

different crystallog. habits in photog. emulsions are affected by the

crystal shape. Unlike AgBr, the habit of AgCl induces

J-aggregation. The J-band is weakened or disappears when the dye is

adsorbed on orthorhombic or monoclinic crystals. An explanation for this

J-aggregation was previously proposed for the absorption spectrum of dyes

adsorbed on AgBr crystals. There are effects other than surface

structures; AgCl and AgBr differ in the intensity of hydration of the

halide ion, and the signs of the space charge layers are opposed. The

(110) and (111) crystals of AgCl induce W or D-absorption maxima.

53132-02-6

311 US&amp;S (12a)

(absorption spectra of sorbed photog. sensitizers, silver halide

crystal habit effect on)

53132-02-6 CAPLUS

18 Benzimidazolium, 5,6-dichloro-2-[3-(5,6-dichloro-1,3-diethyl-1,3-

dihydro-2H-benzimidazol-2-ylidene)-3-propen-1-yl]-1-ethyl-3-[2-

[methylsulfonyl]amino)-2-oxyethyl]-, inner salt (CA INDEX NAME)

1971105057 CAPLUS

75125057

75129749a, 197512a

Photosensitive copying materials containing diazo

dyes

INVENTOR(S):

PATENT ASSIGNER(S):

SOURCE:

CONFERENCE:

LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.:

KIND:

DATE:

APPLICATION NO.:

DATE:

CA 969211

A1

19750527

CA 1970-98246

19701116

FR 2072495

A5

19750924

FR 1970-43073

19701130

JP 48041202

B

19731205

JP 1970-105761

19701130

CH 549984

A5

19731128

CH 1970-17563

19701130

US 3676139

A

19700711

US 1970-94574

19701202

NL 7017685

A

19700607

NL 1970-17685

19701203

CA 1969-59093

A

19691203

GE For diagram(s), see printed CA issue.

AB Photosensitive copying materials were prepared in which an image was

formed

by coupling, in alkaline medium, a diazonium compound and a quaternary

salt of

structure I or II, where R is a substituted or unsubstituted aliphatic or

cycloaliphatic group, n = 1 or 2, and X is an anion. For example, a

mixture of p-[diethylamino]benzenesulfonium tetrafluoroborate 6,

2-methyl-3-[(methylsulfonyl)carbamoyl]methyl-5,6-dimethoxy-

benzothiazolium hexafluorophosphate (I), 2 = CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>, 3 = Me, R, oxazirane 40,

tri-Na naphthalenesulfonate (III), 8, urea 20, silica 1, and azopion

0-5

g, and 54 ml 25% aqueous III was diluted with H<sub>2</sub>O to 400 ml, coated on

a paper

support, and dried. A black image with colorless background was formed

when the coated paper was exposed through a diapos. and developed with

D19.

IT 34238-95-4

34238-95-4 CAPLUS

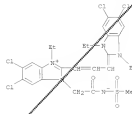
(diapos. process copier)

19 Benzothiazolium, 5,6-dimethoxy-2-methyl-3-[2-[(methylsulfonyl)amino)-2-

oxyethyl]-, hexafluorophosphate (1:1) (CA INDEX NAME)

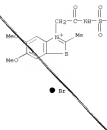
17 ANSWER 99 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

(Continued)



17 ANSWER 100 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN

(Continued)



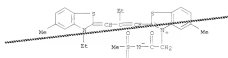


17 ANSWER 103 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 19691460236 CAPLUS  
 DOCUMENT NUMBER: 71160236  
 ORIGINAL REFERENCE NO.: 71121974, 723004  
 TITLE: Red sensitive silver halide films  
 Inventor(s): Oetle, Johannes; Krieger, Gabor; Philippaerts, Herman  
 PATENT ASSIGNOR(S): Gevaert-Agfa N. V.  
 SOURCE: Ref., 28 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. IPRM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 717449		19681010	FR	
DE 1516141			DE	
DE 1597474			DE	
FR 1559458			FR	
GB 1211391			GB	
US 3615164		19711026	US	19604602
PRIORITY APPL. INFO.			DE	19670410
			DE	19670904

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 01 For diagram(s), see printed CA issue.  
 AB A AgBr, 1) emulsion containing 4.1 mole % AgI and 0.1 mole AgX/kg. emulsion  
 is sensitized with 10 mg. of a 1-type dye and coated on cellulose acetate base. The film has no sensitivity in the blue and a maximum at 710 nm.

IT 24687-41-0  
 RI US28 (Uses):  
 (photographic sensitizers)  
 RI 24687-41-0 CAPLUS  
 CH Benotriazolium.  
 2-[2-[(1-ethyl-1-methyl-2-[3H]-benzothiazolylidene)methyl]-1-buten-1-yl]-2-methyl-3-[2-[(methylsulfonyl)amino]-2-oxomethyl], inner salt (CA INDEX NAME)



17 ANSWER 104 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN  
 ACCESSION NUMBER: 196146095 CAPLUS  
 DOCUMENT NUMBER: 64168495  
 ORIGINAL REFERENCE NO.: 6412807e-h, 258184e  
 TITLE: Photographic methine dye sensitizers  
 PATENT ASSIGNOR(S): Gevaert-Agfa N. V.  
 SOURCE: 20 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Unavailable  
 FAMILY ACC. IPRM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 651017		19610205	NL 1961-11017	19650924
PRIORITY APPL. INFO.			GB	19640925

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 01 For diagram(s), see printed CA issue.  
 AB 2,1-Dimethyl-4-sulfonylbenzothiazolium p-toluenesulfonate (4.15 g.) and 3.55 g. 2-[(2-oxo-1,3-dithiol-2-yl)-3-methylthiazolium bromide] (1) in 100

cc. EtOH refluxed 1 min. with 2.8 cc. Et3N yielded II [X = H, X1 = SO2NH2; R = Me, R1 = Et, A = Et], m. >260° [58 (5.10)], dec 112 (X = SO2NH2, R = Et, R1 = Et, A = Et), m. >270° [58 (5.10)]. 2-Methyl-3-[N-(methylsulfonyl)carbamoyl]methyl-7-sulfonylbenzothiazolium bromide (6.2 g.) and 5 g. 1 in 75 cc. aqueous MeOH/EtOH, treated, with cooling, with 4 cc. Et3N and diluted with 100

cc. EtOH gave III [X = SO2NH2, X1 = MeSO2NH-COCH2, R1 = Et], m. 220° (PhOH-EtOH), [502]. Similarly was prepared II [X = SO2NH2, R1 = H, R = Et, A = Et] [501 (5.07)]. 2,3-Dimethyl-7-(methylsulfonyl)benzothiazolium Me sulfate (IV) (3.7 g.), 3.55 g. 1, 25 cc. EtOH, and 2.8 cc. Et3N shaken 0.5 hr. at room temperature gave III [X = MeSO2NH, X = Me, X1 = Et], m. 278-28° [112 (EtOH-H2O)] [556 (4.86)].

Similarly was prepared VI [X = MeSO2NH, R1 = Et, A = Et, X1 = H, X = O, R1 = Et, m. 281-2° [570 (5.16)]. IV (7.6 g.), 7.6 g. MeOH(1), and 10 cc. Ac2O refluxed 20 min. gave VII [X = Et, A = MeSO2NH, R1 = Et, Me, R3 = Et = Et, R = Et, A = MeSO2NH, m. 278-28° (diacetone aie.-EtOH-EtOH) [566 (4.82)]. 3-Methyl-2-methyl-7-sulfonylbenzothiazolium p-toluenesulfonate (4.1 g.) and 3.4 g.

2-[(2-methyl-2-methylthiazol-2-yl)-3-methylbenzothiazolium sulfate in 60 cc. EtOH refluxed 0.5 hr. with 1.4 cc. Et3N gave VI [X = SO2NH2, R1 = Et, A = Et, X1 = Et, R3 = Et, R = Et, A = MeSO2NH, m. 260° (PhOH) [547 (5.11)]. Similarly was prepared VI [X = SO2NH2, R1 = Et, A = Et, X1 = Et, R3 = Et, R = Et, A = MeSO2NH, m. 260° [551 (4.89)]. V [X = AcH-SO2, R1 = Et, R3 = Et, R = Et, A = MeSO2NH, m. 260° [545 (4.84)]. VII [X = MeSO2NH, A = MeSO2NH, m. 260° [545 (4.84)]. VIII, m. 265-7° [562 (5.13)]. VII [X = MeSO2NH2, R1 = Et, A = Et, X1 = Et, R3 = Et, R = Et, A = MeSO2NH, m. 260° [545 (4.84)].

IX, m. 265-7° [562 (5.13)]. VII [X = MeSO2NH2, R1 = Et, A = Et, X1 = Et, R3 = Et, R = Et, A = MeSO2NH, m. 260° [545 (4.84)].

X, m. 265-7° [562 (5.13)]. VII [X = MeSO2NH2, R1 = Et, A = Et, X1 = Et, R3 = Et, R = Et, A = MeSO2NH, m. 260° [545 (4.84)].

XI, m. 265-7° [562 (5.13)]. VII [X = MeSO2NH2, R1 = Et, A = Et, X1 = Et, R3 = Et, R = Et, A = MeSO2NH, m. 260° [545 (4.84)].

XII, m. 265-7° [562 (5.13)]. VII [X = MeSO2NH2, R1 = Et, A = Et, X1 = Et, R3 = Et, R = Et, A = MeSO2NH, m. 260° [545 (4.84)].

17 ANSWER 103 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

17 ANSWER 104 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)

192° [549 (5.04)], V [X = AcH-SO2, R1 = Et = Me, R3 = Et, R4 = H, R5 = Ph, Z = S], m. >270° [551 (4.80)]. 2,3-Dimethyl-7-(methylsulfonyl)benzothiazolium Me sulfate (3.66 g.), 4.8 g. 2-[(2-oxo-1,3-dithiol-2-yl)-3-methylbenzothiazolium iodide, 3.8 cc. Et3N, and 50 cc. EtOH refluxed 0.5 hr. gave VI [X = MeSO2NH, X1 = Et, R3 = Et = H, R1 = Me, R2 = Et, Z = S, A = iodine], m. 207-9° [241 (diacetone aie.-EtOH) [559 (5.22)].

2-[(2-oxo-1,3-dithiol-2-yl)-3-methyl-7-(methylsulfonyl)benzothiazolium p-toluenesulfonate (4.7 g.), 4.6 g. 3-methylthiazolidine-2-thione-4-one, 2.4 cc. Et3N, and 25 cc. Me2O refluxed 15 min. gave IX [X = Et, R3 = Me, R4 = SO2NH2] [548 (4.53)]. Similarly were prepd. 25 (Z = PhO, m. 275-8° [504 (4.39)], and X, m. 265° (4.82 (4.77)). The sensitization max. of the various methine dyes in AgCl emulsions were detd. and are tabulated.

IT 5045-26-39, Benzothiazolium, 2-methyl-3-[(methylsulfonyl)carbamoyl]methyl-7-sulfonyl-, bromide  
 RI: PREP (Preparation)  
 Preparation of  
 RI 5045-26-39 CAPLUS  
 CH Benzothiazolium,  
 7-(methylsulfonyl)-2-methyl-3-[2-[(methylsulfonyl)amino]-2-oxomethyl]-, bromide (1:1) (CA INDEX NAME)

2-methyl-3-[(methylsulfonyl)carbamoyl]methyl-7-sulfonyl-, bromide  
 RI: PREP (Preparation)  
 Preparation of  
 RI 5045-26-39 CAPLUS  
 CH Benzothiazolium,  
 7-(methylsulfonyl)-2-methyl-3-[2-[(methylsulfonyl)amino]-2-oxomethyl]-, bromide (1:1) (CA INDEX NAME)

2-methyl-3-[(methylsulfonyl)carbamoyl]methyl-7-sulfonyl-, bromide  
 RI: PREP (Preparation)  
 Preparation of  
 RI 5045-26-39 CAPLUS  
 CH Benzothiazolium,  
 7-(methylsulfonyl)-2-methyl-3-[2-[(methylsulfonyl)amino]-2-oxomethyl]-, bromide (1:1) (CA INDEX NAME)

2-methyl-3-[(methylsulfonyl)carbamoyl]methyl-7-sulfonyl-, bromide  
 RI: PREP (Preparation)  
 Preparation of  
 RI 5045-26-39 CAPLUS  
 CH Benzothiazolium,  
 7-(methylsulfonyl)-2-methyl-3-[2-[(methylsulfonyl)amino]-2-oxomethyl]-, bromide (1:1) (CA INDEX NAME)

2-methyl-3-[(methylsulfonyl)carbamoyl]methyl-7-sulfonyl-, bromide  
 RI: PREP (Preparation)  
 Preparation of  
 RI 5045-26-39 CAPLUS  
 CH Benzothiazolium,  
 7-(methylsulfonyl)-2-methyl-3-[2-[(methylsulfonyl)amino]-2-oxomethyl]-, bromide (1:1) (CA INDEX NAME)

2-methyl-3-[(methylsulfonyl)carbamoyl]methyl-7-sulfonyl-, bromide  
 RI: PREP (Preparation)  
 Preparation of  
 RI 5045-26-39 CAPLUS  
 CH Benzothiazolium,  
 7-(methylsulfonyl)-2-methyl-3-[2-[(methylsulfonyl)amino]-2-oxomethyl]-, bromide (1:1) (CA INDEX NAME)

2-methyl-3-[(methylsulfonyl)carbamoyl]methyl-7-sulfonyl-, bromide  
 RI: PREP (Preparation)  
 Preparation of  
 RI 5045-26-39 CAPLUS  
 CH Benzothiazolium,  
 7-(methylsulfonyl)-2-methyl-3-[2-[(methylsulfonyl)amino]-2-oxomethyl]-, bromide (1:1) (CA INDEX NAME)

2-methyl-3-[(methylsulfonyl)carbamoyl]methyl-7-sulfonyl-, bromide  
 RI: PREP (Preparation)  
 Preparation of  
 RI 5045-26-39 CAPLUS  
 CH Benzothiazolium,  
 7-(methylsulfonyl)-2-methyl-3-[2-[(methylsulfonyl)amino]-2-oxomethyl]-, bromide (1:1) (CA INDEX NAME)

2-methyl-3-[(methylsulfonyl)carbamoyl]methyl-7-sulfonyl-, bromide  
 RI: PREP (Preparation)  
 Preparation of  
 RI 5045-26-39 CAPLUS  
 CH Benzothiazolium,  
 7-(methylsulfonyl)-2-methyl-3-[2-[(methylsulfonyl)amino]-2-oxomethyl]-, bromide (1:1) (CA INDEX NAME)

2-methyl-3-[(methylsulfonyl)carbamoyl]methyl-7-sulfonyl-, bromide  
 RI: PREP (Preparation)  
 Preparation of  
 RI 5045-26-39 CAPLUS  
 CH Benzothiazolium,  
 7-(methylsulfonyl)-2-methyl-3-[2-[(methylsulfonyl)amino]-2-oxomethyl]-, bromide (1:1) (CA INDEX NAME)

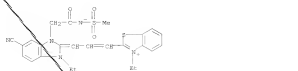
2-methyl-3-[(methylsulfonyl)carbamoyl]methyl-7-sulfonyl-, bromide  
 RI: PREP (Preparation)  
 Preparation of  
 RI 5045-26-39 CAPLUS  
 CH Benzothiazolium,  
 7-(methylsulfonyl)-2-methyl-3-[2-[(methylsulfonyl)amino]-2-oxomethyl]-, bromide (1:1) (CA INDEX NAME)



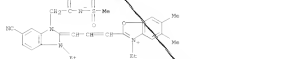


J. Nolan, Ph.D. Page 1

L7 ARSMLR 106 OF 109 CAPLUS COPYRIGHT 2010 ACS on STN (Continued)



103534-82-3    APL05  
 CN    Benzoxazolinum, 6,8-[3-[5-cyano-1-ethyl-1,3-dihydro-3,2-  
 [(methylsulfonyl)amino]-2-oxoethyl]-2H-benzimidazol-2-ylidene]-1-propen-1-  
 yl]-3-ethyl-5,6-dihydro-1, inner salt    (CA INDEX NAME)



ZN 106503-15-5 CAPLOS  
 CN 1E-Pyrrolo[1,2-a]benzimidazolium, 6,7-dichloro-3-[2-(3-ethyl-2-thiazolidinylidene)ethylidene]-2,3-dihydro-4-[2-(methylsulfonyl)aminoethyl]-, inner salt (CA INDEX NAME)



1.T ANSWER 107 OF 109 CAPLOS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1963:82272 CAPLUS  
DOCUMENT NUMBER: 58:82272  
ORIGINAL REFERENCE NO.:  
58:14164e-h, 14165a-h, 14166a-h, 14167a-h, 14168a-h, 14169a-

TITLE:	Methine dyes
PATENT ASSIGNOR(S):	Gevaert Photo-Producten N.V.
SOURCE:	129 pp.
DOCUMENT TYPE:	Patent
LANGUAGE:	Unavailable

PATENT INFORMATION					
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	RE 618235		19620917	RE	
<--	GB 1001061			GB	
	US 3243298		19660329	US 1962-197925	19620528
<--				GB	
	PRIORITY APPLN. INFO.:			GB	19610528

GI For diagram(s), see printed CB Issues.

13 New sym. and unsym. methine dyes for sensitizing photographic Ag halide emulsions are described. The new dyes are formed when benzimidazole Derivs. of the general formula I and II, where the aromatic nucleus may be substituted by Me, Cl, F, CO<sub>2</sub>R, CO<sub>2</sub>H, AcNH, and CH<sub>3</sub>, and/or by a sequence of two or more substituents, react with 2,3-bis(hydroxyalkyl)-4-hydroxy-5-X-CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>O, where X = O, C, or S, are quarternized with MeI, EtI, NMe<sub>4</sub>Br, NMe<sub>4</sub>I (III), AlMe<sub>3</sub>O<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>Br (IV), MeSO<sub>3</sub>NMe<sub>3</sub>CO<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>Br (V), H<sub>2</sub>OCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>Br (VI), or 1,3-propanediol sulfate (VII) and subsequently condensed with the 2-(2-acetamidovinyl)-1,3-ethyl-thiazolium bromide (VIII), the

[illegible]

poured into 2 l. H<sub>2</sub>O, and filtered yielded 2,4,5-Cl<sub>10</sub>N<sub>2</sub>2C<sub>6</sub>H<sub>2</sub>CO<sub>2</sub>Bt (XX), n. 78° [EtOH]. KK (35 g.) in 250 cc. MeOH added dropwise to 29.4 g. XVIII, heated 10 min. on the water bath, and filtered gave the N-[5,4,2-Cl-(EtO<sub>2</sub>C)-(O<sub>2</sub>N)<sub>2</sub>C<sub>6</sub>H<sub>2</sub>] derivative of XVIII, m. 105°. 4,3-Cl-(O<sub>2</sub>N)<sub>2</sub>C<sub>6</sub>H<sub>2</sub>SO<sub>2</sub>Cl<sub>2</sub> (102.4 g.) added dropwise at 50° to 148 cc. XVIII, heated 15 min. on the water bath, poured into H<sub>2</sub>O, and filtered.

L7 ANSWER 106 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)

L7 ANSWER 107 OF 109 CAPLOS COPYRIGHT 2010 ACS on STN (Continued)

yielded 2-pyrrolidino-5-(pyrrolidinomethylsulfonyl)-1-nitrobenzene, *M*<sub>n</sub> 133\* (iso-PROH). 2,5-Bis(1 $\pi$ C6H3NO2 (115 g.) and 109 cc. piperidine (XXI) heated 1.5 hrs. with stirring at 95°, dild. with H<sub>2</sub>O, and filtered gave the 2,4-(10Z)C6H3 deriv. of XXI, *M*<sub>n</sub> 53\* (iso-PROH). 1-[4,2-Cl(2H)C6H3] deriv. (82.4 g.) of XVIII (obtained by hydrogenation of XIX) in 625 cc. 2N HCl diazotized with 29.4 g. NaNO<sub>2</sub> in 70 cc. H<sub>2</sub>O, poured into 75.3 g. NaN<sub>3</sub> in 168 g. NaOAc in 650 cc. H<sub>2</sub>O, and filtered,

[illegible]

(EtOH). XLVIII (9.2 g.) in 30 cc. H<sub>2</sub>O and 9 cc. HCl diazotized with 2.5 g. NaNO<sub>2</sub> in 15 cc. H<sub>2</sub>O, neutralized with Na<sub>2</sub>CO<sub>3</sub>, treated with stirring with 6.89 g. CuCN and 12.3 g. KCN in 100 cc. H<sub>2</sub>O, kept 0.5 hr. at room temp. and 15 min. at 50-60°, cooled, and filtered, and the residue







[illegible][illegible][illegible]

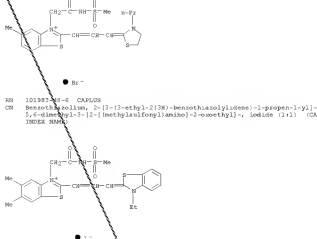
7. L7 ANSWER 108 OF 109 CAPLOS COPYRIGHT 2010 ACS ON STM (Continued)

XII

Benzo[*b*]azepine, 2-[2-(3-ethyl-2(2H)-benzothiazolylidene)-1-propen-1-yl]-5,6-dimethyl-3-[2-(methylsulfonylamino)-2-methyl]-, iodide [1:1] (CA INDEX 9004)

• H<sup>+</sup>

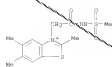
• I<sup>-</sup>



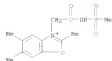




1/7 ANSWER 109 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)

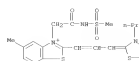
● S<sup>+</sup>

RI 96435-33-3 CAPLUS  
 CH Benzoazolinium, 2,5,6-trimethyl-3-[2-[(methylanilino)amino]-2-oxethyl]-, bromide (1:1) (CA INDEX NAME)

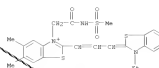
● S<sup>+</sup>

RI 99946-52-8 CAPLUS  
 CH Benzoazolinium, 2,5,6-trimethyl-3-[2-[(methylanilino)amino]-2-oxethyl]-2-[3-(3-propyl-2-thiazolidinylidene)-1-propen-1-yl]-, bromide (1:1) (CA INDEX NAME)

1/7 ANSWER 109 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)

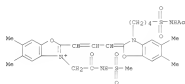
● Br<sup>-</sup>

RI 101393-48-6 CAPLUS  
 CH Benzoazolinium, 2-[2-(3-ethyl-2[(5E)-benzothiazolylidene)-1-propen-1-yl]-5,6-dimethyl-3-[2-[(methylanilino)amino]-2-oxethyl]-, iodide (1:1) (CA INDEX NAME)

● I<sup>-</sup>

RI 106599-46-6 CAPLUS  
 CH Benzoazolinium, 2-[2-[2-[(4-(acetylamino)butyl)amino]-5,6-dimethyl-2[(3E)-benzothiazolylidene)-1-propen-1-yl]-5,6-dimethyl-3-[2-[(methylanilino)amino]-2-oxethyl]-, bromide (1:1) (CA INDEX NAME)

1/7 ANSWER 109 OF 109 CAPLUS COPYRIGHT 2010 ACS on STM (Continued)

● S<sup>+</sup>